



Department of Energy

Field Office, Oak Ridge

P.O. Box 2001

Oak Ridge, Tennessee 37831-8542

February 11, 1993

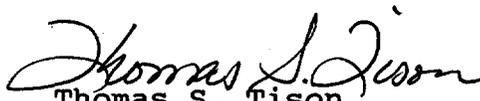
Mr. A. S. Quist
International Technology
Martin Marietta Energy Systems, Inc.
P. O. Box 2003
Oak Ridge, Tennessee 37831-7307

Dear Mr. Quist:

DOCUMENT RELEASE

The Department of Energy K-25 Site Office reviewed the enclosed documents and has determined that they are fully releasable to ChemRisk and the State of Tennessee for official use.

Sincerely,


Thomas S. Tison
K-25 Site Manager

Enclosures:

1. Gross to dist, dtd. 2/14/84
2. Hibbitts to dist, dtd. 2/21/84
3. Hibbitts to dist, dtd. 3/20/84
4. Hibbitts to dist, dtd. 12/11/84
5. Hibbitts to dist, dtd. 7/10/84
6. Hibbitts to dist, dtd. 11/6/84
7. Hibbitts to dist, dtd. 10/10/84
8. Hibbitts to dist, dtd. 4/24/84
9. Hibbitts to dist, dtd. 4/3/84
10. Hibbitts to dist, dtd. 4/10/84
11. Oakes to Reservation Resource Mgt. Committee, dtd. 6/17/85
12. Gist to Chadwick, dtd. 5/14/86 801243
13. Hibbitts to dist, dtd. 3/14/84
14. Hibbitts to dist, dtd. 5/31/84
15. Hibbitts to dist, dtd. 5/22/84
16. Hibbitts to dist, dtd. 7/3/84
17. Hibbitts to dist, dtd. 6/27/84
18. Hibbitts to dist, dtd. 6/5/84
19. Hibbitts to dist, dtd. 3/27/84
20. Hibbitts to dist, dtd. 3/6/84
21. Hibbitts to Smithwick, dtd. 5/29/87
22. Hibbitts to dist, dtd. 2/28/84
23. Hibbitts to Parker, dtd. 1/13/86
24. Hart to Machta, dtd. 12/1/75
25. Hibbitts to dist, dtd. 9/10/84
26. Hibbitts to dist, dtd. 8/2/84
27. Sapirie to Hibbs, dtd. 3/16/71

DOCUMENT NUMBER: UNNUMBERED/801263

DOCUMENT TITLE: LETTER CONCERNING WELL WATER SAMPLE

AUTHORS: CS GIST

DOCUMENT TYPE: CORRESPONDENCE

DOCUMENT DATE: 05-14-86

PURPOSE OF RELEASE: HEALTH STUDY FEASIBILITY REPORT

COPY RIGHTED MATERIAL: NO

DOCUMENT NUMBER: UNNUMBERED/801263

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COPY RIGHTED MATERIAL: NO

DOCUMENT NUMBER: UNNUMBERED/801263

DOCUMENT TITLE: LETTER CONCERNING WATER SAMPLES

AUTHORS: CS GIST

DOCUMENT TYPE: CORRESPONDENCE

DOCUMENT DATE: 02-20-87

PURPOSE OF RELEASE: HEALTH STUDY FEASIBILITY REPORT

COPY RIGHTED MATERIAL: NO

DOCUMENT NUMBER: UNNUMBERED/801263

DOCUMENT TITLE: OAK RIDGE GASEOUS DIFFUSION PLANT ANALYTICAL
CHEMISTRY DEPARTMENT RESULTS OF ANALYSES

AUTHORS: MS MILLER

DOCUMENT TYPE: REPORT

DOCUMENT DATE: 12-04-86

PURPOSE OF RELEASE: HEALTH STUDY FEASIBILITY REPORT

COPY RIGHTED MATERIAL: NO

DOCUMENT NUMBER: UNNUMBERED/801263

DOCUMENT TITLE: LETTER CONCERNING WATER SAMPLES

AUTHORS: CS GIST

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AUTHORS: MS MILLER

DOCUMENT TYPE: REPORT

DOCUMENT DATE: 12-03-86

PURPOSE OF RELEASE: HEALTH STUDY FEASIBILITY REPORT

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DOCUMENT TITLE: LETTER CONCERNING WATER SAMPLES

AUTHORS: CS GIST

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AUTHORS: MS MILLER

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AUTHORS: MS MILLER

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DOCUMENT DATE: 12-05-86

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AUTHORS: MS MILLER

DOCUMENT TYPE: REPORT

DOCUMENT DATE: 12-04-86

PURPOSE OF RELEASE: HEALTH STUDY FEASIBILITY REPORT

COPY RIGHTED MATERIAL: NO

Groundwater
File
801263



Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

May 14, 1986

Mr. A. L. Chadwick
Rt. 3, Box 170
Kingston, Tennessee 37763

Dear Mr. Chadwick:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

The results are as follows:

about .7 in etc

Location:	Rt. 3, Kingston, TN
Sample Number:	86-0314
Collection Date:	04/07/86
Strontium-90 Results:	<0.5 pCi/l
Mercury Results:	<.01 ppb

above background but not significantly different

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, Tennessee 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy



Oak Ridge
Associated Universities Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

May 14, 1986

Mr. Charles H. Smith
Rt. 3, Box 145-B
Kingston, Tennessee 37763

Dear Mr. Smith:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

The results are as follows:

Location:	Rt. 3, Kingston, TN
Sample Number:	86-0323
Collection Date:	04/07/86
Strontium-90 Results:	0.527 pCi/l
Mercury Results:	.07 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, Tennessee 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy



Oak Ridge
Associated Universities Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

May 14, 1986

Mrs. Sibyl Bible
Rt. 3, Box 145-A
Kingston, Tennessee 37763

Dear Mrs. Bible:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

The results are as follows:

Location:	Rt. 3, Kingston, TN
Sample Number:	86-0323
Collection Date:	04/07/86
Strontium-90 Results:	0.527 pCi/l
Mercury Results:	.07 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

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Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy

File



Oak Ridge
Associated Universities Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

May 14, 1986

Mr. Joe Gooch
Rt. 3, Smith Road
Kingston, Tennessee 37763

Dear Mr. Gooch:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

The results are as follows:

Location:	Rt. 3, Smith Road
Sample Number:	86-0321
Collection Date:	04/07/86
Strontium-90 Results:	<0.5 pCi/l
Mercury Results:	.01 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, Tennessee 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

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cc: Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy



Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

May 14, 1986

Mr. Earl Biddix
Rt. 3, Smith Road
Kingston, Tennessee 37763

Dear Mr. Biddix:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

The results are as follows:

Location:	Rt. 3, Smith Road
Sample Number:	86-0322
Collection Date:	04/07/86
Strontium-90 Results:	<0.5 pCi/l
Mercury Results:	.03 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, Tennessee 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

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Mr. Wayne Hibbitts - Department of Energy

File



Oak Ridge
Associated Universities Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

May 14, 1986

Mrs. Eloise Smith
Rt. 3, Gallaher Road
Kingston, Tennessee 37763

Dear Mrs. Smith:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

The results are as follows:

Location:	Rt. 3, Gallaher Road
Sample Number:	86-0320
Collection Date:	04/07/86
Strontium-90 Results:	0.750 pCi/l
Mercury Results:	.06 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, Tennessee 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy

File

ORAU Oak Ridge
Associated Universities Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

May 14, 1986

Mr. Jimmy Jackson
Rt. 3, Gallaher Road
Kingston, Tennessee 37763

Dear Mr. Jackson:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

The results are as follows:

Location:	Rt. 3, Gallaher Road
Sample Number:	86-0319
Collection Date:	04/07/86
Strontium-90 Results:	<0.5 pCi/l
Mercury Results:	.06 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, Tennessee 37831-0117 or at (615) 576-3432.

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Mr. Wayne Hibbits - Department of Energy

 Oak Ridge
Associated Universities Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

May 14, 1986

Mrs. Marie Smith
Rt. 3, Gallaher Road
Kingston, Tennessee 37763

Dear Mrs. Smith:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

The results are as follows:

Location:	Rt. 3, Gallaher Road
Sample Number:	86-0318
Collection Date:	04/07/86
Strontium-90 Results:	<0.5 pCi/l
Mercury Results:	.05 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, Tennessee 37831-0117 or at (615) 576-3432.

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Mr. Wayne Hibbitts - Department of Energy



Oak Ridge
Associated Universities Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
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May 14, 1986

Mrs. Georgia Thacker
Rt. 3, Gallaher Road
Kingston, Tennessee 37763

Dear Mrs. Thacker:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

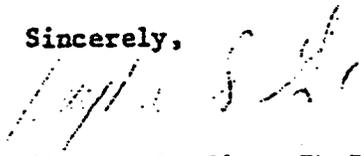
The results are as follows:

Location:	Rt. 3, Gallaher Road
Sample Number:	86-0317
Collection Date:	04/07/86
Strontium-90 Results:	<0.5 pCi/l
Mercury Results:	.04 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

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Mr. Wayne Hibbitts - Department of Energy

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Oak Ridge
Associated Universities Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

May 14, 1986

Mr. G. D. Smith
Rt. 3, Gallaher Road
Kingston, Tennessee 37763

Dear Mr. Smith:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

The results are as follows:

Location:	Rt 3, Gallaher Road
Sample Number:	86-0316
Collection Date:	04/07/86
Strontium-90 Results:	<0.5 pCi/l
Mercury Results:	.02 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

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Associated Universities Post Office Box 117
Oak Ridge, Tennessee 37830

3111
Manpower Education,
Research, and Training
Division

May 14, 1986

Mr. Tim R. Ramey
Rt. 3, Gallaher Road
Kingston, Tennessee 37763

Dear Mr. Ramey:

On March 25, 1986, the U. S. Department of Energy requested Oak Ridge Associated Universities to collect a well water sample from your property and analyze the sample for strontium-90 and mercury.

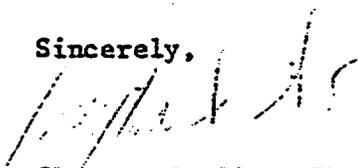
The results are as follows:

Location:	Rt. 3, Gallaher Road
Sample Number:	86-0315
Collection Date:	04/07/86
Strontium-90 Results:	<0.5 pCi/l
Mercury Results:	.02 ppb

The Environmental Protection Agency's standards on safe drinking water for strontium-90 is 8 pCi per liter (40CFR141, Subpart B) and for mercury is 0.002 milligrams per liter (2 parts per billion). Your results are below these standards and meet the safe drinking water criteria.

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Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

February 20, 1987

Mr. Kenneth Silva
Route 2, Box 401
Harriman, TN 37748

Dear Mr. Silva:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

Location:	Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0803						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.06	0.485	<241.98	<0.288	0.963		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	.20	4.2	1.9	0	0	0	.10

PCB and cyanide results are listed on the attached sheet.

my/l
For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radioactivity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy
Aubrey D. McKinney - Tennessee Department of Health and Environment

Oak Ridge Gaseous Diffusion Plant
Analytical Chemistry Department
Results of Analyses

Customer Name: GIST
 Customer Sample Number: 86-0803 Lab Sample Number: 861111-057
 Date Sample Received: 11-NOV-1986 Date Sample Completed: 4-DEC-1986
 Material Description: WELL/SPRING WATER Reg. Number:

Act. No.	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Completed
1510		EPA-608	PCB (Aroclor-1016)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1221)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1232)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1242)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1248)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1254)	<1.0	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1260)	<1.0	us/L	RE HOWARD	4-DEC-1986
	1844		EPA-335.2	Cyanide	<0.002	us/L	J GOODMAN JR

Program Manager: MS Miller
Date Approved: 4-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 860
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = 861126-075
 Analyst = SK POLING
 Date Completed = 3-DEC-1986

===== COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY =====

Spike results:

Compound	Spike	Result	% Recovery
Dibutyl Chloroendate	1.0 us/L	Interfering peak	-----



Oak Ridge
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Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

February 20, 1987

Mrs. Linda Edwards
Route 2, Box 404
Harriman, TN 37748

Dear Mrs. Edwards:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

Location:	Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0802						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.04	0.616	<241.98	0.422	1.129		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	.10	15.4	.60	0	0	0	.20

PCB and cyanide results are listed on the attached sheet.

mgl
For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radioactivity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy
Aubrey D. McKinney -

Oak Ridge Gaseous Diffusion Plant
 Analytical Chemistry Department
 Results of Analyses

Customer Name: GIST
 Customer Sample Number: 86-0802 Lab Sample Number: 861111-076
 Date Sample Received: 11-NOV-1986 Date Sample Completed: 4-DEC-1986
 Material Description: WELL/SPRING WATER Reu. Number:

Act. No.	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Complete
1510	EPA-608	PCB (Aroclor-1016)		<5.0	ug/L	RE HOWARD	4-DEC-1986
	EPA-608	PCB (Aroclor-1221)		<5.0	ug/L	RE HOWARD	4-DEC-1986
	EPA-608	PCB (Aroclor-1232)		<5.0	ug/L	RE HOWARD	4-DEC-1986
	EPA-608	PCB (Aroclor-1242)		<5.0	ug/L	RE HOWARD	4-DEC-1986
	EPA-608	PCB (Aroclor-1248)		<5.0	ug/L	RE HOWARD	4-DEC-1986
	EPA-608	PCB (Aroclor-1254)		<10.0	ug/L	RE HOWARD	4-DEC-1986
	EPA-608	PCB (Aroclor-1260)		<10.0	ug/L	RE HOWARD	4-DEC-1986
1844	EPA-335.2	Cyanide		<0.002	ug/L	J GOODMAN JR	17-NOV-1986

Program Manager: MS Miller
 Date Approved: 4-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 255
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = 861126-075
 Analyst = SK POLING
 Date Completed = 2-DEC-1986

COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY

like results:

Compound	Spike	Result	% Recovery
butyl Chloroacetate	1.0 ug/L	Interfering peak	-----



Oak Ridge
 Associated Universities
 Post Office Box 117
 Oak Ridge, Tennessee 37830

Manpower Education,
 Research, and Training
 Division

February 20, 1987

Mr. Rhea Hester
 Route 2, Box 390A
 Harriman, TN 37748

Dear Mr. Hester:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

Location:	Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0804						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.10	<0.681	<241.98	0.612	1.818		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	.10	0	.30	.20	0	0	.20

PCB and cyanide results are listed on the attached sheet.

mgl
 For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radioactivity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
 Certified Senior Ecologist
 Environmental Surveillance and
 Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
 Mr. Pat Turri - Tennessee Department of Health and Environment
 Mr. Wayne Eibbitts - Department of Energy
 Aubrey D. McKinney - Tennessee Department of Health and Environment

Oak Ridge Gaseous Diffusion Plant
 Analytical Chemistry Department
 Results of Analyses

Customer Name: GIST
 Customer Sample Number: 86-0804 Lab Sample Number: 861111-058
 Date Sample Received: 11-NOV-1986 Date Sample Completed: 4-DEC-1986
 Material Description: WELL/SPRING WATER Reg. Number:

Act. No.	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Completed
1510	EPA-608	EPA-608	PCB (Aroclor-1016)	<0.5	us/L	RE HOWARD	4-DEC-1986
	EPA-608	EPA-608	PCB (Aroclor-1221)	<0.5	us/L	RE HOWARD	4-DEC-1986
	EPA-608	EPA-608	PCB (Aroclor-1232)	<0.5	us/L	RE HOWARD	4-DEC-1986
	EPA-608	EPA-608	PCB (Aroclor-1242)	<0.5	us/L	RE HOWARD	4-DEC-1986
	EPA-608	EPA-608	PCB (Aroclor-1248)	<0.5	us/L	RE HOWARD	4-DEC-1986
	EPA-608	EPA-608	PCB (Aroclor-1254)	<1.0	us/L	RE HOWARD	4-DEC-1986
	EPA-608	EPA-608	PCB (Aroclor-1260)	<1.0	us/L	RE HOWARD	4-DEC-1986
1844	EPA-335.2		Cyanide	<0.002	us/L	J GOODMAN JR	17-NOV-1986

Program Manager: MS Miller
 Date Approved: 5-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 830
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = 861126-075
 Analyst = SK POLING
 Date Completed = 3-DEC-1986

==== COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY =====

Spike results:

Compound	Spike	Result	% Recovery
Dibutyl Chloroendate	1.0 us/L	0.82 us/L	82%



Oak Ridge
 Associated Universities
 Post Office Box 117
 Oak Ridge, Tennessee 37830

Manpower Education,
 Research, and Training
 Division

February 20, 1987

Mr. James Young
 Route 2, Box 414
 Harriman, TN 37748

Dear Mr. Young:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

Location:	Off Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0797						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.13	<0.530	<241.98	<0.271	<0.564		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	0	.90	.20	.70	0	0	.10

PCB and cyanide results are listed on the attached sheet.

mgll
 For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radioactivity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist
 Clayton S. Gist, Ph.D.
 Certified Senior Ecologist
 Environmental Surveillance and
 Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
 Mr. Pat Turri - Tennessee Department of Health and Environment
 Mr. Wayne Hibbitts - Department of Energy



Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

February 20, 1987

Mrs. Ann Bender
Route 2, Box 413
Harriman, TN 37748

Dear Mrs. Bender:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

Location:	Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0798						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.04	0.674	<241.98	<0.280	0.599		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	.50	2.7	0	.80	0	0	.10

PCB and cyanide results are listed on the attached sheet.

For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radioactivity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
Mr. Pat Turri - Tennessee Department of Health and Environment

Oak Ridge Gaseous Diffusion Plant
Analytical Chemistry Department
Results of Analyses

Customer Name: GIST
 Customer Sample Number: 66-0797 Lab Sample Number: E61111-051
 Date Sample Received: 11-NOV-1986 Date Sample Completed: 2-DEC-1986
 Material Description: WELL/SPRING WATER Req. Number:

Act. No.	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Completed
1510		EPA-608	PCB (Aroclor-1016)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1221)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1232)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1242)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1248)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1254)	<1	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1260)	<1	us/L	LC FELLERS	2-DEC-
1844		EPA-335.2	Cyanide	0.002	us/L	J GOODMAN JR	17-NOV-

Program Manager: MS Miller
Date Approved: 2-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 850
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = E61124-12B
 Analyst = SK FOLING
 Date Completed = 25-NOV-1986

XXXX COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY XXXX

SPIKE RESULTS:

Compound	Spike	Result	% Recovery
Dibutyl Chlorophosphate	1.0 us/ml	1.38 us/ml	138 %

Oak Ridge Gaseous Diffusion Plant
 Analytical Chemistry Department
 Results of Analyses

Customer Name: GIST
 Customer Sample Number: 86-0798
 Date Sample Received: 11-NOV-1986
 Material Description: WELL/SPRING WATER

Lab Sample Number: 861111-052
 Date Sample Completed: 2-DEC-1986
 Rep. Number:

Act. No.	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Completed
1510		EPA-608	PCB (Aroclor-1016)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1221)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1232)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1242)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1248)	<.5	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1254)	<1	us/L	LC FELLERS	2-DEC-
		EPA-608	PCB (Aroclor-1260)	<1	us/L	LC FELLERS	2-DEC-
1844		EPA-335.2	Cyanide	0.002	us/L	J GOODMAN JR	17-NOV-

Program Manager: MS Miller
 Date Approved: 3-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 790
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = 861124-12B
 Analyst = SK FOLING
 Date Completed = 25-NOV-1986

XXXX COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY XXXX

SPIKE RESULTS:

Compound	Spike	Result	% Recovery
Dibutyl Chlorodate	1.0 us/l	0.94 us/l	94 %



Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

February 20, 1987

Mr. James Watts
Route 2, Box 412
Harriman, TN 37748

Dear Mr. Watts:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

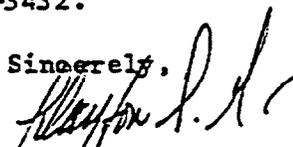
Location:	Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0799						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.07	<0.696	<241.98	0.315	<0.577		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	.10	.20	0	.90	0	0	.20

PCB and cyanide results are listed on the attached sheet.

For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radioactivity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,


Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

SG:ag

Code Enforcement Office - City of Oak Ridge
Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy
Aubrey D. McKinney - Tennessee Department of Health and Environment



Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

February 20, 1987

Mr. Lonnie Nelson
Route 2, Box 415
Harriman, TN 37748

Dear Mr. Nelson:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

Location:	Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0800						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.15	<0.809	<241.98	<0.295	1.208		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	.30	.70	.85	.95	0	0	.20

PCB and cyanide results are listed on the attached sheet.

For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radioactivity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy
Audrey D. McKinney - Tennessee Department of Health and Environment

Oak Ridge Gaseous Diffusion Plant
 Analytical Chemistry Department
 Results of Analyses

Customer Name: GIST
 Customer Sample Number: 86-0800 Lab Sample Number: 861111-054
 Date Sample Received: 11-NOV-1986 Date Sample Completed: 3-DEC-1986
 Material Description: WELL/SPRING WATER Rec. Number:

Act. No.	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Completed
1510		EPA-608	PCB (Aroclor-1016)	<0.5	us/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1221)	<0.5	us/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1232)	<0.5	us/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1242)	<0.5	us/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1248)	<0.5	us/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1254)	<1.0	us/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1260)	<1.0	us/L	RE HOWARD	3-DEC-1986
1844		EPA-335.2	Cyanide	<0.002	ug/L	J GOODMAN JR	17-NOV-1986

Program Manager: NS Hiller
 Date Approved: 4-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 670
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = 861126-075
 Analyst = SK POLING
 Date Completed = 2-DEC-1986

===== COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY =====

Spike results:

Compound	Spike	Result	% Recovery
Dibutyl Chlorodate	1.0 us/L	1.03 us/L	103%



Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

February 20, 1987

Mr. Danny Shultz
Route 2, Sugar Grove Valley Road
Harriman, TN 37748

Dear Mr. Shultz:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

Location:	Off Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0807						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.23	0.407	<241.98	<0.289	<0.571		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	1.1	0	.20	0	0	0	0

PCB and cyanide results are listed on the attached sheet.

For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radioactivity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1952), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy
Ambrose D. M...

Oak Ridge Gaseous Diffusion Plant
Analytical Chemistry Department
Results of Analysis

Customer Name: GIST
 Customer Sample Number: B6-0807 Lab Sample Number: B61111-061
 Date Sample Received: 11-NOV-1986 Date Sample Completed: 6-DEC-1986
 Date Sampled:
 Material Description: WELL/SPRING WATER Rea. Number:

Activity Number	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Complete
1844		EPA-335.2	Cyanide	<0.002	ug/L	J GOODMAN JR	17-NOV-19

Program Manager: MS Miller
Date Approved: 10-DEC-1986

EPA-608	PCB (Aroclor-1016)	<0.5	us/L	RE HOWARD	8-DEC-1986
EPA-608	PCB (Aroclor-1221)	<0.5	us/L	RE HOWARD	8-DEC-1986
EPA-608	PCB (Aroclor-1232)	<0.5	us/L	RE HOWARD	8-DEC-1986
EPA-608	PCB (Aroclor-1242)	<0.5	us/L	RE HOWARD	8-DEC-1986
EPA-608	PCB (Aroclor-1248)	<0.5	us/L	RE HOWARD	8-DEC-1986
EPA-608	PCB (Aroclor-1254)	<1.0	us/L	RE HOWARD	8-DEC-1986
EPA-608	PCB (Aroclor-1260)	<1.0	us/L	RE HOWARD	8-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 880
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = B61126-075
 Analyst = SK POLING
 Date Completed = 4-DEC-1986

XXXX COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY XXXX

Spike results:

Compound	Spike	Result	% Recovery
Dibutyl Chlorodate	1.0 us/L	0.83 us/L	83%



Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

February 20, 1987

Mr. Charles Thompson
Route 2, Box 390C
Harriman, TN 37748

Dear Mr. Thompson:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

Location:	Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0805						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.13	0.526	<241.98	0.568	2.891		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	0	.30	.40	.30	0	0	.30

PCB and cyanide results are listed on the attached sheet.

For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radio-activity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbits - Department of Energy

Oak Ridge Gaseous Diffusion Plant
Analytical Chemistry Department
Results of Analyses

Customer Name: GIST
 Customer Sample Number: B6-0805 Lab Sample Number: 861111-059
 Date Sample Received: 11-NOV-1986 Date Sample Completed: 4-DEC-1986
 Material Description: WELL/SPRING WATER Rea. Number:

Act. No.	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Completed
1510	EPA-608	PCB (Aroclor-1016)	<0.5	us/L	RE HOWARD	4-DEC-86	
	EPA-608	PCB (Aroclor-1221)	<0.5	us/L	RE HOWARD	4-DEC-86	
	EPA-608	PCB (Aroclor-1232)	<0.5	us/L	RE HOWARD	4-DEC-86	
	EPA-608	PCB (Aroclor-1242)	<0.5	us/L	RE HOWARD	4-DEC-86	
	EPA-608	PCB (Aroclor-1248)	<0.5	us/L	RE HOWARD	4-DEC-86	
	EPA-608	PCB (Aroclor-1254)	<1.0	us/L	RE HOWARD	4-DEC-86	
	EPA-608	PCB (Aroclor-1260)	<1.0	us/L	RE HOWARD	4-DEC-86	
1844	EPA-335.2	Cyanide	<0.002	us/L	J GOODMAN JR	17-NOV-86	

Program Manager: MS Miller
Date Approved: 5-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 860
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = 861126-075
 Analyst = SK POLING
 Date Completed = 3-DEC-1986

===== COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY =====

Spike results:

Compound	Spike	Result	% Recovery
Dibutyl Chlorodate	1.0 us/L	0.65 us/L	65%



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Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

February 20, 1987

Mr. Roger Lankford
Route 2, Box 398X
Harriman, Tn 37748

Dear Mr. Lankford:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

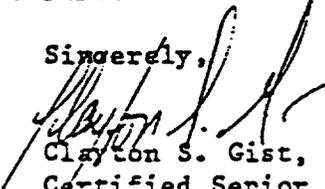
Location:	Off Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0806						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.10	0.921	<241.98	2.968	2.783		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	0	.10	1.2	.30	0	0	.10

PCB and cyanide results are listed on the attached sheet.

For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radioactivity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,


Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Eibbitts - Department of Energy

Oak Ridge Gaseous Diffusion Plant
 Analytical Chemistry Department
 Results of Analyses

Customer Name: GIST
 Customer Sample Number: 86-0806 Lab Sample Number: 861111-060
 Date Sample Received: 11-NOV-1986 Date Sample Completed: 4-DEC-1986
 Material Description: WELL/SPRING WATER Rea. Number:

Act. No.	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Completed
1510		EPA-608	PCB (Aroclor-1016)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1221)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1232)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1242)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1248)	<0.5	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1254)	<1.0	us/L	RE HOWARD	4-DEC-1986
		EPA-608	PCB (Aroclor-1260)	<1.0	us/L	RE HOWARD	4-DEC-1986
1844		EPA-335.2	Cyanide	<0.002	us/L	J GOODMAN JR	17-NOV-1986

Program Manager: MS Miller
 Date Approved: 5-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 870
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = 861126-075
 Analyst = SK POLING
 Date Completed = 3-DEC-1986

==== COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY ====

Spike results:

Compound	Spike	Result	% Recovery
t-Butyl Chloroendate	1.0 us/L	0.85 us/L	85%



Oak Ridge
Associated Universities
Post Office Box 117
Oak Ridge, Tennessee 37830

Manpower Education,
Research, and Training
Division

February 20, 1987

Mrs. Bonita Irwin
Route 2, Box 418
Harriman, TN 37748

Dear Mrs. Irwin:

On October 15, 1986, ORAU was requested to collect water samples from your property for analysis.

The results are as follows:

Location:	Sugar Grove Valley Road, Harriman, Tennessee						
Sample Number:	86-0801						
Collection Date:	10/23/86						
Results Ranges:	Mercury (ug/L)	Strontium (pCi/L)	Tritium (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)		
	.09	0.455	<241.98	<0.308	1.987		
	Copper (ug/L)	Zinc (ug/L)	Lead (ug/L)	Nickel (ug/L)	Cadmium (ug/L)	Beryllium (ug/L)	Lithium (ug/L)
	1.6	0	.80	.11	0	0	.20

PCB and cyanide results are listed on the attached sheet.

For your information, the EPA Code of Federal Regulations (40CFR141) states the following are the maximum contaminant levels for inorganic chemicals other than fluoride: Arsenic, 0.05; Cadmium, 0.010; Chromium, 0.05; Lead, 0.05; Mercury, 0.002; and Selenium, 0.01. These are listed in milligrams per liter. EPA also states that the maximum contaminant levels for gross alpha particle radio-activity (including radium-226 but excluding radon and uranium) is 15 pCi/L. EPA's regulations for the average annual concentrations assumed to produce a total body or organ dose of 4 MREM/year for tritium is 20,000 pCi/L and for strontium-90 is 8 pCi/L. According to the United States Public Health Service (1962), the recommended level for cyanide is 200 ppb.

If you have any questions concerning the sample results, please feel free to contact me at Oak Ridge Associated Universities, MERT/PTP Division, P. O. Box 117, Oak Ridge, TN 37831-0117 or at (615) 576-3432.

Sincerely,

Clayton S. Gist, Ph.D.
Certified Senior Ecologist
Environmental Surveillance and
Monitoring Program

CSG:ag

cc: Code Enforcement Office - City of Oak Ridge
Mr. Pat Turri - Tennessee Department of Health and Environment
Mr. Wayne Hibbitts - Department of Energy
Aubrey D. McKinney - Tennessee Department of Health and Environment

Oak Ridge Gaseous Diffusion Plant
Analytical Chemistry Department
Results of Analysis

Customer Name: GIST
 Customer Sample Number: 86-0801 Lab Sample Number: 861111-CST
 Date Sample Received: 11-NOV-1986 Date Sample Completed: 3-DEC-1986
 Material Description: WELL/SPRINGS WATER Rec. Number:

Act. No.	Preparation Procedure No.	Analysis Procedure No.	Analysis	Result	Units	Analyst	Date Complete
1510		EPA-608	PCB (Aroclor-1016)	<5.0	ug/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1221)	<5.0	ug/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1232)	<5.0	ug/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1242)	<5.0	ug/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1248)	<5.0	ug/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1254)	<10.0	ug/L	RE HOWARD	3-DEC-1986
		EPA-608	PCB (Aroclor-1260)	<10.0	ug/L	RE HOWARD	3-DEC-1986
1844		EPA-335.2	Cyanide	6.002	ug/L	J GOODMAN JR	15-NOV-1986

Program Manager: MS Miller
 Date Approved: 4-DEC-1986

Pesticide (EPA 608) Extraction Data

Extracted Sample Weight = 845
 Final Extracted Volume = 10
 Extraction Method = Separatory Funnel
 Extraction Solvent = Methylene Chloride
 Extraction Cleanup =
 Associated Blank = 861126-075
 Analyst = SK POLING
 Date Completed = 3-DEC-1986

==== COMMENTS FROM THE GAS/LIQUID CHROMATOGRAPHY LABORATORY ====

Spike results:

Compound	Spike	Result	% Recovery
Dibutyl Chlorodisate	1.0 ug/L	Interfering peak	-----