**M-686** 

### Formerly Utilized Sites Remedial Action Program (FUSRAP)

# ADMINISTRATIVE RECORD

## for the Maywood Site, New Jersey



US Army Corps of Engineers®

### NOTE: BEST AVAILABLE COPY FROM BECHTEL PROJECT MANAGEMENT RECORDS

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MAY 17 1985

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62 Avenue 7 Lodi, New Jersey 07644

Dear Manager

RESULTS OF RADIOLOGICAL SURVEY

This is to confirm the results of a radiological survey conducted on your property at 62 Avenue F on April 17, 1985. The survey was made by technicians from Eberline Analytical Corporation using two instruments: 1) an Eberline PRS-1 portable scaler with a SPA-3 sodium iodide detector, used to measure direct radiation in counts per minute; and 2) an SAC-4 alpha counter to measure radon gas.

Fourteen measurements were made in the yard, five in the house, and two in the garage with the SPA-3. Results ranged from 5,000 to 13,000 counts per minute, which is within the range of normal background radiation. The test for radon inside the house showed a "working level" of 0.003, which is also within the range of normal background radiation. ("Working level" is a unit of measurement used to express the concentration of radon.)

In summary, these tests did not indicate any radioactivity above normal, naturally occurring levels. If you have further questions, please contact Mr. Robert Atkin of my staff at (615) 576-1826.

Sincerely,

ORIGINAL SIGNED BY

E. L. Keller, Director Technical Services Division

CE-53:Atkin

bcc Whitman CE-53:RGAtkin:jm:6-1826:5-16-85

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#### OFFICIAL FILE COPY

M-686 EE18663 Department of Energy **Oak Ridge Operations** P. O. Box E Oak Ridge, Tennessee 37831 MAR 0 7 1986 CONCURRENCES RTG SYMBO CE-53 NITIAL SISH Atkin DATE 3/6/86 97 Bell Avenue Maywood, New Jersey 07607 STG SYMBOL CE-53 INITIACS/SIG. Dear N ing During November 1985, a survey was performed on your property <sup>™</sup>Ж11′<sub>3/-</sub> determine if radiation in excess of normal levels was present. of the analyses are now complete and we are pleased to inform you RTG SYMBOL that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes CE-53 from the trace amounts of radioactive materials present in all Campbell The results of the radiation survey on your property are soil. attached. Also included are normal background levels for the M 171 Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equa TCE-53 to the background values and are substantially below the DOE guidelines. DATE Two different types of radiation measurements were taken. For surfaces such as the ground, floors, and walls, a detector capa of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood ..... Chemical Works. To detect the presence of these radioactive INITIALS/SIG. materials in your yard and home, the radiation probe was held ju above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and anal ring symbol it for radon. The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in yout home. Radium-226 is one of the radioactive materials present in intralssia waste from the Maywood Chemical Works. DATE Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any ATG SYMBOL questions concerning this information, please contact me at (615) 576-0948. INITIALS/SKG. Sincerely, DATE ORIGINAL SIGNED BY ATG SYMBOL LOWELL F. CAMPBELL E. L. Keller, Director INITIALS/SIG. Technical Services Division bcc w/encl.: DATE E. DeLaney, NE-23, GTN Attachment D. Paley, NJDEP As Stated J. Eng, NJDEPOFFICIAL FILE COPY DOE F 1325.10 Mayor Panos (7-79) Patricia Allison

#### RADIATION SURVEY RESULTS AT 97 BELL AVENUE HAYWOOD, NEW JERSEY

Type of Heasurement	Units	Number of Measurements	Result	DOE Guideline	Normal Background Range
Gamma Survey	Hicroentgens per hour	Continuous scan of surfaces	12*	20**	7-15
Indoor air sample for radon	Picocuries per liter	1	0.5	3.0	0.10-0.90

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\*Highest measurement found on property.

\*\*Above the normal background values.

40732 35047 and the second and the second Department of Energy Cak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831 State of the state of the second Affiliated Packaging Co., Inc. 👾 🐖 207 West Central Avenue FOR 163D Central Maywood, New Jersey 07607 ATTN: Dear During October 1985, a survey was performed on the property at 163D Central Avenue to determine if radiation in excess of normallevels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal Background ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey on the property are attached. Also included are normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines. Radiation measurements capable of detecting gamma radiation emitted from materials handled by the Maywood Chemical Works were staken on ground surfaces of the property. To detect the presence of these radioactive materials on the property, a radiation probe was held just above, or in contact with, the surface to be -%≫⊘≓ surveyed. Once again, all of the measurements taken at 163D Central Avenue show that no radioactive contamination is present. If you have any questions concerning this information, please contact me\_at (615) 576-0948. matheway and the state that was a second Alter Section Sincerely, \*\*\*\*\*\*\*\* State de la A .... Cher ... Star E. L. Keller, Director 19 3 4 5 8 0 Technical Services Division والمراجعة والتدير المتركب كالأروسان والترو المتلاة Attachment and a second strategy to be second as a second As Stated The second s WEISSMENTS ST Contraction of the second n start store in the store of the in the second second

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Department of Energy Osk Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

March 20, 1986

136 East Central Avenue Maywood, New Jersey

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During December 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All analyses are now complete and, except for radon concentrations in air, all measurements are within normal background ranges. Because radon concentrations are affected by changing atmospheric conditions, we feel it is advisable to collect additional air samples from your home. Also, radon concentrations in basements can be affected by building materials (concrete contains more radium-226 as compared to wood) and ventilation (basements are typically not well ventilated). Based on the other radiation measurement made in your home, we feel that the radon concentration originally measured in December may be artificially high. This can best be determined by the additional sampling suggested previously. You will be contacted prior to March 24, 1986 to arrange an appropriate time to collect these samples.

The results of the initial survey are enclosed. These results represent data collected using two different types of radiation measurements. For surfaces such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home may be an indicator of possible radium-226 contamination around or in your home. WRadium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works and, as mentioned earlier, naturally occurring in certain building materials.

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If you have any questions concerning this information, please contact me at (615) 576-0948.

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Sincerely,

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E. K.Keller

E. L. Keller, Director Technical Services Division

Enclosure: As stated

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cc: G. P. Crotwell, BNI

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#### RADIATION SURVEY RESULTS AT 136 EAST CENTRAL AVENUE MAYWOOD, NEW JERSEY

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Type of <u>Measurement</u>	Units	Number of <u>Heasurements</u>	Range of <u>Result</u>	DOB <u>Guideline</u>	Normal Background <u>Range</u>
Gamma survey	microrcentgens per hour	Continuous scan of surfaces	11*	20**	7-15
Indoor air sample for radon	picocuries per liter	1	3.3	3.0	<b>0.10-0.90</b>

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\*Highest measurement found on property.

\*\*Above the normal background values.

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Department of Energy Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

130 W. Central Avenue Maywood, New Jersey 07607

Dear

During November 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All analyses are now complete.

Three different types of radiation measurements were taken. For surfaces such as ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The second measurement made consisted of collecting an air sample and analyzing it for radon. The third method consisted of collecting samples of soil which were analyzed for thorium and radium contamination.

Gamma surveys and soil sampling of your property indicate radioactive contamination on the back portion of your lot may -exceed remedial action criteria. This must be substantiated by additional data collection. Gamma surveys in and around you house indicate no radioactive contamination is present in this area. The radon concentration measured in the basement of your home was 2.2 pCi/liter of air compared to background which normally fluctuates between 0.10 and 0.90 pCi/liter of air and the DOB guideline of 3.0 pCi/liter of air. The measured value, while slightly above background, is not unusual for basements. Radon concentrations in basements can be affected by building materials (concrete contains elevated radium-226 as compared to wood) and ventilation (basements are usually not as well ventilated as above-ground living areas).

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You will be contacted in the spring of 1986 to schedule additional surveys of your property. All radiation levels measured on your property are less than applicable limits for exposure to radiation and do not constitute a hazard to your family. The additional surveys will more adequately define contamination levels. If you have any questions concerning this information, please contact me at (615) 576-0948.

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Sincerely,

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E. L. Keller, Director Technical Services Division

Attachment As Stated

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cc: G. P. Crotwell, BNI

RADIATION SURVEY RESULTS AT 130 WEST CENTRAL AVENUE MAYWOOD, NEW JERSEY

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Type of Measurement	<u>Units</u>	Number of Measurements	Range of <u>Result</u>	DOE <u>Guideline</u>	Normal Background Range
Gamma survey	microroentgens per hour	Continuous scan of surfaces	8-29	20*	7-15
Indoor air sample for radon	picocuries per liter	1	2.2	3.0	0.10-0.90
Soil sample	picocuries per gram	2	4.5-4.6	5	0.5-1.5

\*Above the normal background values.

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Dear <sup>(</sup>

Department of Energy Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

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142 West Central Avenue Maywood, New Jersey 07607

During December 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

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Two different types of radiation measurements were taken. For surfaces such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

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Attachment As Stated

		Y RESULTS AT 142 WEST MAYWOOD, NEW JERSEY	C CENTRAL AVEN			
Type of Measurement	Units	Number of Measurements	Result	DOE Guideline	Normal Background Range	
 Gamma Survey Indoor air sample for radon	y Microentgens per hour Picocuries per liter	Continuous scan of surfaces 1	17*	20** . 3.0	7–15 0.10–0.90	
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Department of Energy Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831 584 Elm Street

During November 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally, occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

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Maywood, New Jersey

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Dear<sup>®</sup> I

Two different types of radiation measurements were taken. For surfaces such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

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Dear 🖣

Department of Energy Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

33 Grove Avenue Rochelle Park, New Jersey 07662

During July, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal 'background' ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. Residents of Denver typically receive twice as much exposure from background radiation as New Jersey residents. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

Two different types of radiation measurements were taken. For surface such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted fror all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any guestions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

Attachment: As Stated

cc: R. G. Atkin

#### RADIATION SURVEY RESULTS AT 33 GROVE AVENUE

#### ROCHELLE PARK, NEW JERSEY

Type of Measurement	Units	Number of Measurements	Result	DOE Guideline	Normal Background Range
Gamma survey	microroentgens per hour	Continuous scan of surfaces	11 *	20**	7-15
Indoor air sample for radon	picocuries per liter	I	0.2	3.0	0.10-0.90

\*Highest measurement found on property.

\*\*Above normal background values.

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Dear .

Department of Energy Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

41 Grove Avenue Rochelle Park, New Jersey 07662

During July, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal 'background' ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. Residents of Denver typically receive twice as much exposure from background radiation as New Jersey residents. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

Two different types of radiation measurements were taken. For surface such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

Attachment: As Stated

cc: F. G. Atkin

#### RADIATION SURVEY RESULTS AT 41 GROVE AVENUE

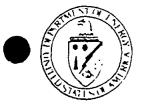
#### ROCEHLLE PARK, NEW JERSEY

Type of Measurement	Units	Number of Measurements	Result	DOE Guideline	Normal Background Range
Gamma survey	microroentgens per hour	Continuous scan of surfaces	. 10 +	20**	7-15
Indoor air sample for radon	picocuries per liter	I	0.1	3.0	0.10-0.90

\*Highest measurement found on property.

\*\*Above normal background values.

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Dear ¶

#### **Department of Energy**

Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

45 Grove Avenue Rochelle Park, New Jersey 07662

During July, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal 'background' ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. Residents of Denver typically receive twice as much exposure from background radiation as New Jersey residents. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DCE guidelines.

Two different types of radiation measurements were taken. For surface such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any guestions concerning this information, please contact me at (615) 576-0948.

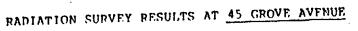
Sincerely,

E. L. Keller, Director Technical Services Division

Attachment: As Stated

cc: R. G. Atkin





ROCEHLLE PARK, NEW JERSEY

Type of Measurement	Units	Number of Measurements	Result	DOE Guideline	Normal Background Pange
Gamma survey	microroentgen per hour	Continuous scan of surfaces	9 +	20**	7-15
Indoor air sample for radon	picocuries per liter	1	0.2	3.0	0.10-0.90

\*Highest measurement found on property.

\*\*Ahove normal background values.

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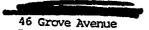
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Department of Energy **Oak Ridge Operations** P. O. Box E Oak Ridge, Tennessee 37831

November 5, 1987



Rochelle Park, New Jersey 07662

Dear

CE-53:Atkin

: J. A. Arenson, ENI

RADIOLOGICAL SURVEY RESULTS AT 46 GROVE AVENUE, ROCHELLE PARK, NEW JERSEY

During September 1987, a survey was performed on your propert / to determine if radiation in excess of normal levels was present. All of the analyses are now complete, and we are pleased to inform you that all measurements are within the Department of Energy's (DOE). guidelines.

Instruments capable of detecting external radiation exposure emitted from materials handled by the former Maywood Chemical Works (MCW) were used to measure the exposure over the ground surfaces of your property. In addition, systematic soil samples were analyzed for radioactivity associated with the MCW operation.

The results of the survey indicate a maximum radiation exposure level of 5.2 microrcentgens per hour which is typical of the northern New Jersey area. The analyses of soil samples show maximum radionuclide concentrations of 2.9 and 1.0 picocurie per gram for thorium 232 and radium 226, respectively. These concentrations compare to levels significantly less than the current DOE surface soil quidelines. Uranium 238 concentrations were below the instrumentation detection limits, indicating normal levels.

Once again, all of the measurements taken at your property show that no radioactive contamination exceeds the DOE guidelines. If you have any questions concerning this information, please contact Mr. Robert Atkin of my staff at (615) 576-1826.

Sincerely,

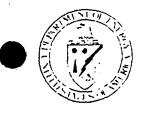
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S. W. Ahrends, Director Technical Services Division

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Celebrating the U.S. Constitution Bicentennial - 1787-1987

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Dear 🎢

Department of Energy Oak Ridge Operations

P. O. Box E Oak Ridge, Tennesser: 37831

49 Grove Avenue Rochelle Park, New Jersey 07662

During July, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal 'background' ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. Residents of Denver typically receive twice as much exposure from background radiation as New Jersey residents. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

Two different types of radiation measurements were taken. For surface such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Naywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-22b contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Norks.

Once again, all of the measurements taken at your residence easy that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

Attachment: As Stated

co: R. G. Atkin

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#### **Department of Energy**

Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

57 Grove Avenue Rochelle Park, New Jersey 07662

Dear Martine .

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During July, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal 'background' ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. Pesidents of Denver typically receive twice as much exposure from the background radiation as New Jersey residents. The results of the radiation survey are attached for your review. Also included e normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

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Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any suestions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

ttachment: As Stated

c: F. G. Atkin

39020



Dear I

Department of Energy Oak Ridge Operations P O <sup>1</sup>Box E Oak Ridge, Tennessee 37831

61 Grove Avenue Rochelle Park, New Jersey 07662

During July, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal 'background' ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. Residents of Denver typically receive twice as much exposure from background radiation as New Jersey residents. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

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Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

Attachment: As Stated

cc: R. G. Atkin

Department of Energy Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

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50 Howcroft Road Maywood, New Jersey 07607

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During October 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE quidelines.

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Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

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Sincerely,

E. L. Keller, Director Technical Services Division

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Attachment As Stated

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Type of leasurement	Units		Number of Neasurements		Result	DOE Guideline	Normal Background Range	
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Department of Energy Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

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65 East Hunter Avenue Maywood, New Jersey 07470

Dear 📆

On July 11, 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal 'background' ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. Residents of Denver typically receive twice as much exposure from background radiation as New Jersey residents. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

Several different types of radiation measurements were taken. For surfaces such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other two types of measurements made consisted of collecting air samples. Both involved analyzing for radon and its radioactive decay products. The presence of these radionuclides in your home would have been an indicator that radium-226 contamination was around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at 615-576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

Attachment: As Stated

#### Radiation Survey Results at 65 East Hunter Maywood, New Jersey

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Type of Measurement	<u>Units</u>	Number of Measurements	Average	Range	DOE Standard	Normal Background Range
Outdoor Camma Survey	Counts per Minute	12	8300	7,100-9,500	NA	6,000-12,000
Indoor Camma Survey	Counts per Minute	7	9900	7,500-10,700	NA	6,000-12,000
Air Sample for Radon	Pico Curies per Liter	1	0.10	NA	3.0	0.10 - 0.90
Air Sample for Radon Decay Products	Working Levels	1	0.001	NA	0.020	0.001-0.009

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Department of Energy P. O. Box E Oak Ridge, Tennessee 37831 and the second second

330 Jaeger Avenue Maywood, New Jersey 07607 COMPANY STATES AND ARE SALES 🐝 Dear - 📶

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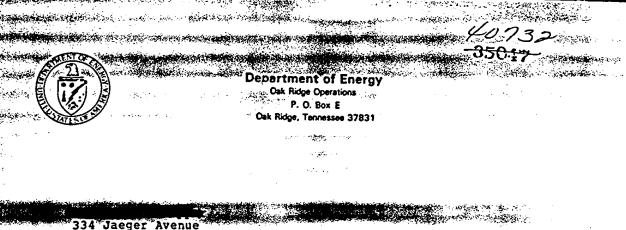
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ALL FRANK PUBLICATION Gamma surveys of your property indicated no radioactive contamination is present. These measurements would locate any deposits of radioactive materials. Radon concentration measured in the basement of your home was 1.1 pCi/liter of air compared to background which normally fluctuates between 0.10 and 0.90 pCi/liter of air and the DOE guideline of 3.0 pCi/liter of air. The measured value while slightly above background is not unusual for basements." Radon concentrations in basements can be affected by building materials (concrete contains elevated Fradium-226 as compared to wood) and ventilation (basements are usually not as well ventilated as above-ground living areas). Measurements taken at your residence show that no radioactive det materials which were handled by the Maywood Chemical Works is present. If you have any questions concerning this information please contactame at (615) 567-0948. and the standard and the state Sincerely, Keller, Director Technical Services Division Attachment As Stated Section in the section

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Maywood, New Jersey 07607

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### RADIATION SURVEY RESULTS AT 334 JAEGER AVENUE MAYWOOD, NEW JERSEY

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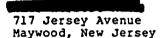
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Type of Neasurement	Units	Number of Neasurements	Result	DOE Guideline	Normal Background Range
Gamma Survey	Nicroentgens per hour	Continuous scan of surfaces	12*	20**	7-15
Indoor air sample for radon	Picocuries per liter	1	1.1	*3.0	0.10-0.90
*Highest measu	rement found on property	··			
L in	ormal background values.				
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CAR THE CAR SHOULD BE AND A SHOULD BE ANT A CALL AND A CALL Oak Ridge Operations P. O. Box E Department of Energy Oak Ridge, Tennessee 37831



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Dear Sec. 2.

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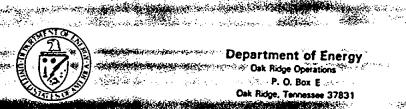
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Number of DOE Background   surement Units Measurements Result Guideline Range   ma Survey Microentgens per hour Continuous scan of surfaces 11* 20** 7-15   oor air Picocuries per liter 1 1.7 3.0 0.10-0.90		Ind sam rad	Gam				こうしょう ないない ないない ちょうちょう いっこう
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Department of Energy Oak Ridge Operations States P. O. Box Elaster of Oak Ridge, Tennessee 37831

36 Lenox Avenue Maywood, New Jersey 07607

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Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director ---- Technical Services Division ----

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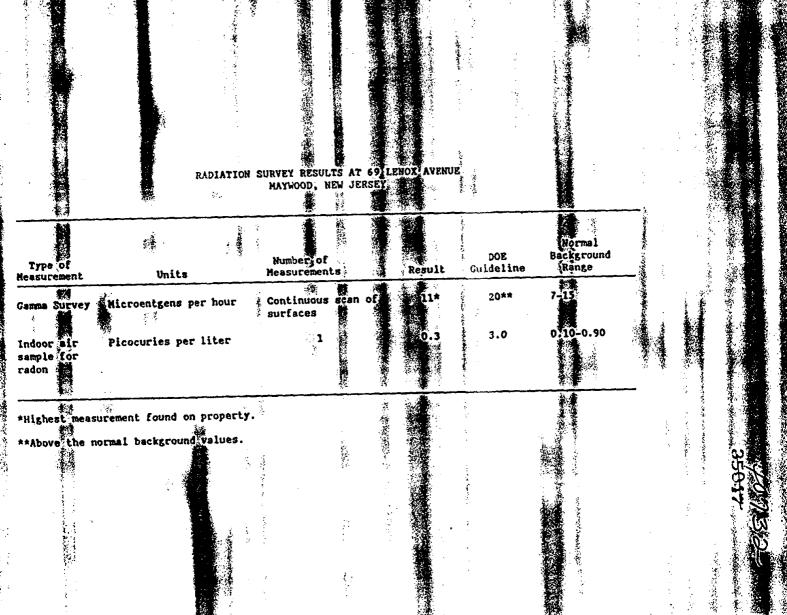
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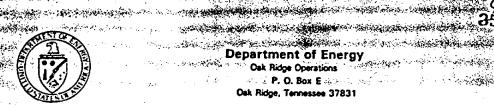
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AND STREET S Department of Energy Cak Ridge Operations er als P. O. Box E appendix services Oak Ridge, Tennessee 37831

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845 Lincoln Avenue Maywood, New Jersey 07607

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During October 1985, as survey was performed on your property to determine if radiation invexcess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE quidelines.

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Sincerely,

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	Normal Backgrou Range	7–15 0.10–0.9	
NUE	DOE Guideline	20** 3.0	
LINCOLN AVE	Result	9* 0.1	
RVEY RESULTS AT 845 MAYWOOD, NEW JERSE	Number of Measurements	Continuous scan of surfaces	
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RADIATI	its	ns per hou per liter	
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	f	ir Pic or	measurement the normal
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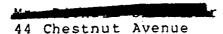


**Department of Energy** 

Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

FOR: 19 W. Magnolia

027195



Rochelle Park, New Jersey 07662

Dear Name and State

During April 1986, a survey was performed at your request on the property at 19 West Magnolia Avenue to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey on the property are attached. Also included are normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

Radiation measurements capable of detecting gamma radiation emitted from materials handled by the Maywood Chemical Works were taken on ground surfaces of the property. To detect the presence of these radioactive materials on the property, a radiation probe was held just above, or in contact with, the surface to be surveyed.

Once again, all of the measurements taken at 19 West Magnolia Avenue show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

Attachment: As Stated

Type of Type of Measurement	Units Units Microentgens per hour	Number of Measurements	Range of Results	DOE Guideline	Normal Background Range
Gamma Survey	Nicroentgens per hour	Continuous scan of	7-13	20*	7-15

RADIATION SURVEY RESULTS AT 19 WEST MAGNOLIA AVENUE MAYWOOD, NEW JERSEY

\*Above the normal background range of values.

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~~~**~**~~**↓** Section Providence Department of Energy Oak Ridge Operations P. O. Box E ..... Oak Ridge, Tennessee 37831 55 Maywood Avenue 07607 Maywood, New Jersey Standards gesting a strate of the second Dear Street and the second During November 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present.

determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radiation survey are attached for your review. Also included are normal background levels for the New Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

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Sincerely,

E. L. Keller, Director Technical Services Division

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Attachment As Stated

| RADIATION SURVEY RESULTS AT 55 MAYMOOD AVENUE     Type of Mumber of Measurements Result Couldeline Background Range     Type of Measurement Units   Number of Measurements Result Couldeline Background Range     Camma Survey Microentgens per hour Continuous scan of State Couldeline Range for surfaces   3.0   0.10-0.90     Tampoor air Picocuries per liter 1   0.6   3.0   0.10-0.90     "Wighest measurement found on property.   "Hove the normal background values."   State | ADJATION SURVEY RESULTS AT 55 MAYWOOD AVENUS     Type of Mumber of Number of Messurements   Normal Background Range     Camma Survey Microentgens per hour Continuous scan of 94   20**   7-15     Indoor air Picocuries per liter   1   0.6   3.0   0.10-0.90     Whighest measurement found on property.     *Move the normal background values.   44%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| NADIATION SURVEY RESULTS AT 55 MAYWOOD AVENUE     NATWOOD, NEW JERSEY     Normal Background Resurements     Normal DOE Normal Background Renge     Survey Microentgens per hour Continuous scan of Surfaces     r sir   Picocuries per liter     1   0.6   3.0   0.10-0.90     est measurement found on property.     ve the normal background values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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measurement found on property.<br>ve the normal background values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| MADIATION SURVEY RESULTS AT 55 MAYWOOD AVENUE<br>MAYWOOD, NEW JERSEY   Measurements Result Normal<br>Guideine<br>Measurements   revey Microentgens per hour<br>surfaces Continuous scan of<br>surfaces 9* 20**   revey Microentgens per hour<br>surfaces 0.6 3.0 0.10-0.90   result 0.6 3.0 0.10-0.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| RADIATION SURVEY RESULTS AT 55 MAYWOOD AVENUE     MATWOOD, NEW JERSEY     Number of<br>Measurements   DOF<br>Result   Normal<br>Background<br>Range     Microentgens per hour   Continuous scan of<br>surfaces   9*   20**   7-15     Picocuries per liter   1   0.6   3.0   0.10-0.90     urement found on property.   ormal background values.   40 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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property.<br>ormal background values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| RADIATION SURVEY RESULTS AT 55 MAYWOOD AVENUE     Mumber of Measurements   Dof Measurements   Normal Background Range     Units   Number of Measurements   Dof Measurements   Background Range     icroentgens per hour   Continuous scan of Surfaces   9*   20**   7-15     iccouries per liter   1   0.6   3.0   0.10-0.90     ment found on property.   al background values.   40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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property.<br>at background values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| ADIATION SURVEY RESULTS AT 55 MAYWOOD AVENUE<br>NAYWOOD, NEW JERSEY<br>Number of <u>Background Range</u><br>oentgens per hour <u>Continuous scan of</u> 9* 20** 7-15<br>curies per liter 1 0.6 3.0 0.10-0.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| RADIATION SURVEY RESULTS AT 55 MAYWOOD AVENUE<br>MAYWOOD, NEW JERSEY<br>Units Number of<br>Measurements Result Guideline Background<br>Range<br>tgens per hour Continuous scan of 9* 20** 7-15<br>ies per liter 1 0.6 3.0 0.10-0.90<br>pund on property.<br>cground values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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property.<br>Aground values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| RADIATION SURVEY RESULTS AT 55 MAYWOOD AVENUE<br>MAYWOOD, NEW JERSEY<br>Number of<br>ts Number of<br>Measurements Result Guideline Background<br>Range<br>s per hour Continuous scan of 9* 20** 7-15<br>per liter 1 0.6 3.0 0.10-0.90<br>on property.<br>und values.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| DIATION SURVEY RESULTS AT 55 MAYWOOD AVENUE<br>MAYWOOD, NEW JERSEY<br>Number of<br>Measurements<br>rhour Continuous scan of<br>surfaces<br>liter 1 0.6 3.0 0.10-0.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| DN SURVEY RESULTS AT 55 MAYWOOD AVENUE<br>NAYWOOD, NEW JERSEY     Number of<br>Measurements   Normal<br>Background<br>Range     Continuous scan of<br>surfaces   9*   20**   7-15     1   0.6   3.0   0.10-0.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DH SURVEY RESULTS AT 55 HAYWOOD AVENUE<br>MAYWOOD, NEW JERSEY     Number of<br>Measurements   DOE and Background<br>Range     Continuous scan of<br>surfaces   9*   20**   7-15     1   0.6   3.0   0.10-0.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ,<br>,<br>,                                                                                 |                  |                                                                    | - 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| URVEY RESULTS AT 55 MAYWOOD AVENUE<br>MAYWOOD, NEW JERSEY<br>Number of<br>Measurements Result Guideline Range<br>Continuous scan of 9* 20** 7-15<br>surfaces<br>1 0.6 3.0 0.10-0.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| RESULTS AT 55 MAYWOOD AVENUE<br>DOD, NEW JERSEY<br>er of<br>rements Result Guideline Range<br>nuous scan of 9* 20** 7-15<br>ces<br>1 0.6 3.0 0.10-0.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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111 Maywood Avenue Maywood, New Jersey 07607

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During November 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

Two different types of radiation measurements were taken. For surfaces such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any guestions concerning this information, please contact me at (615) 576-0948.

Sincerely,

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E. L. Keller, Director

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## RADIATION SURVEY RESULTS AT 111 MAYWOOD AVENUE MAYWOOD, NEW JERSEY

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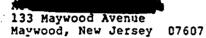
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| Type of<br>Neasurement                            | Units                                                  | Number of<br>Measurements      | • • • • • • • • • • • • • • • • • • • | Result     | DOE<br>Guideline | Normal<br>Background<br>Range |
|---------------------------------------------------|--------------------------------------------------------|--------------------------------|---------------------------------------|------------|------------------|-------------------------------|
| Gamma Survey<br>Indoor air<br>sample for<br>radon | Microentgens per hour<br>Picocuries per liter          | Continuous sc<br>surfaces<br>1 | an of                                 | 11*<br>0.3 | 20**<br>3.0      | 7-15<br>0.10-0.90             |
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During October 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey on your property are attached. Also included are normal background levels for the New Jersey area as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

Radiation measurements capable of detecting gamma radiation emitted from materials handled by the Maywood Chemical Works were taken on ground surfaces of your property. To detect the presence of these radioactive materials on your property, a radiation probe was held just above, or in contact with, the surface to be surveyed. The radiation probe was moved to numerous points on your property to check for radioactive contaminants.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any we questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

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# E. L. Keller, Director Technical Services Division

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**Department of Energy Oak Ridge Operations** P. O. Box E k Ridge, Tennessee 37831 EE18646

CONCURRENCES ATG SYMBOL CE-53 INITIALS/SIG. Atkin DATE 3/18/86

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Maywood, New Jersey Dear

Our Lady Oueen of Peace

During October 1985, a survey was performed on the church's property to determine if radiation in excess of normal levels was present. All analyses are now complete. In general measurements were within normal background levels. However, measurements on paved areas of the property were slightly elevated when compared to background levels. We feel it is appropriate to perform additional measurements to determine the source of these readings. You will be contacted prior to March 24, 1986 to arrange an appropriate time to collect these samples.

Results of the initial survey are attached. These results represent data collected using two different types of radiation measurements. For surfaces such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon

If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely, RTG SYMBOL INITIAL S/SIG. TSD FILE NO. 138.1 E. L. Keller, Director DATE Technical Services Division ATG SYMBOL Attachment INITIALS/SKG. bcc: E. DeLaney, NE-23, GTN D. Paley, NJDEP G. P. Crotwell, BNI DATE

DOE F 1325.10 (7-79)

cc:

As Stated

J. Eng, NJDEP OFFICIAL FILE COPY Mayor Panos Patricia Allison -

# RADIATION SURVEY RESULTS AT 400 MAYWOOD AVENUE MAYWOOD, NEW JERSEY

.

| Type of<br><u>Measurement</u>     | Units                      | Number of<br>Measurements      | Range of<br><u>Result</u> | DOE<br>Guideline | Normal<br>Background<br>Range |
|-----------------------------------|----------------------------|--------------------------------|---------------------------|------------------|-------------------------------|
| Gamma survey                      | microroentgens<br>per hour | Continuous scan<br>of surfaces | 7-22                      | 20*              | 7-15                          |
| Indoor air<br>sample for<br>radon | picocuries per<br>liter    | 2                              | 0.2-0.6                   | 3.0              | 0.10-0.90                     |

\*Above the normal background values.





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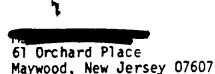
**642485** (J-012



Department of Energy

Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

January 8, 1987



During September 1986, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil.

Two different types of radiation measurements were taken. For surfaces such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by the former Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The results of these measurements ranged from 7 to 15 microroentgens per hour which are background levels.

The other measurement consisted of collecting an air sample and analyzing it for radon (RN-222). The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the former Maywood Chemical Works. This measurement was 1.7 picocuries per liter which is slightly higher than normal background levels but typical of what is found in winter months when a structure is closed and relatively "air tight." As a comparison, the DOE guideline for radon in a habitable structure is 3 picocuries per liter.

Once again, all of the measurements taken at your property show that no radioactive contamination above guidelines is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

S. abrend

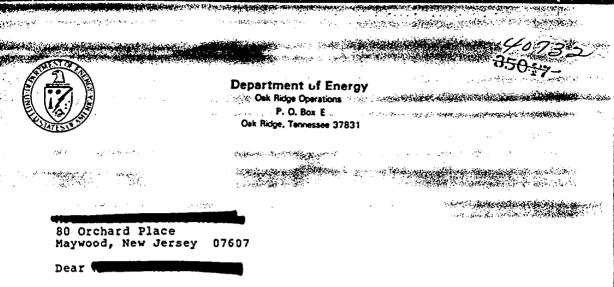
S. W. Ahrends, Director Technical Services Division

Received by

cc: J. Kannard, BNI J. Wagoner, NE-23, GTN

JAN 91981

FIIC STO



During October 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE guidelines.

Two different types of radiation measurements were taken. For surfaces such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works.

Gamma surveys of your property indicated no radioactive contamination is present. These measurements would locate any deposits of radioactive materials. Radon concentration measured in the basement of your home was 2.1 pCi/liter of air compared to background which normally fluctuates between 0.10 and 0.90 pCi/liter of air and the DOE guideline of 3.0 pCi/liter of air. The measured value, while slightly above background, is not

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STATISTICS OF STATISTICS OF STATISTICS an and the grade of the second s Ser Colore unusual for basements. Radon concentrations in basements can be affected by building materials (concrete contains elevated radium-226 as compared to wood) and ventilation (basements are usually not as well ventilated as above-ground living areas). an lander sche <mark>Bertel sons</mark>tanden der Stander von der Bertel auf der Bertellen der Stander Bertellen auf der Bertellen auf Measurements taken at your residence show that no radioactive materials which were handled by the Maywood Chemical Works are present. If you have any questions concerning this information, please contact me at (615) 576-0948. Carlos Contractor Sincerely, E. L. Reller, Director 12.04.000 Sector -المراجع والمركزية المحارك لجواع والمعادي المحارين Technical Services Division Attachment As Stated AND A REAL SHOP AND A REAL PROPERTY OF A and the second states and the . and the second 1. The second survey and so and a company of مدد وتاسيني ما ا . .... 2.5.244-20. лана. С المرياحة جوانيهما REAL AND A SHE And a second second . . . . ner men her sen here were a construction of the service and the energia and the second second and the second sec and the second secon

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#### RADIATION SURVEY RESULTS AT 80 ORCHARD PLACE MAYWOOD, NEW JERSEY

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| Type of<br>Neasurement            | Units                 | Number of<br>Neasurements      | Result | DOE<br>Guideline | Normal<br>Background<br>Range |
|-----------------------------------|-----------------------|--------------------------------|--------|------------------|-------------------------------|
| Gamma Survey                      | Nicroentgens per hour | Continuous scan of<br>surfaces | 8*     | 20**             | 7-15                          |
| Indoor air<br>sample for<br>radon | Picocuries per liter  | 1                              | 2.1    | 3.0              | 0.10-0.90                     |
|                                   |                       |                                |        |                  |                               |

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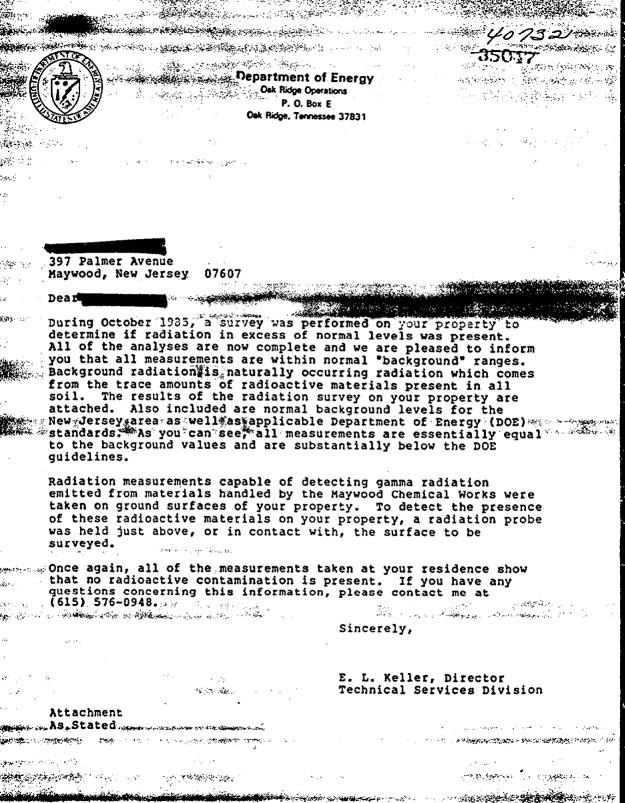
Highest measurement found on property.

\*\*Above the normal background values.

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| an an Anna an A |          | n sector of the |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | Typeasu                       |                                       | rate of  |                                         | 高田語なる。 |
|                                                                                                                 |          | :<br>:          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Survej                 | e of<br>irement               | · · · · · · · · · · · · · · · · · · · |          |                                         |        |
|                                                                                                                 |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nicr                   |                               |                                       | 24       |                                         |        |
|                                                                                                                 |          |                 | t found on proceedings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | onits                  |                               | RAI                                   |          |                                         |        |
|                                                                                                                 | с »<br>1 |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | hour                   |                               | DIATION S                             |          | · A · · · · · · · · · · · · · · · · · · |        |
|                                                                                                                 |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Continuous<br>surfaces | Number of<br>Measurement      | URVEY RESULT<br>MAYWOOD, N            |          |                                         |        |
|                                                                                                                 |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | scan of                |                               | IS AT 397<br>Hew Jerse                | <i>i</i> | ·                                       | ·      |
|                                                                                                                 |          | j se i s        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8*                     | Result                        | PALHER AVENU<br>Y                     |          |                                         |        |
|                                                                                                                 |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20**                   | DOE<br>Guidelin <del>e</del>  |                                       |          | · · ·                                   |        |
|                                                                                                                 |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7-15                   | Normal<br>Background<br>Range |                                       |          |                                         |        |
|                                                                                                                 |          |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                               |                                       |          |                                         |        |
| 1732<br>947                                                                                                     | <b>%</b> |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                               |                                       |          |                                         |        |

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Dear

cc:

Department of Energy Osk Ridge Operations P. O. Box E Osk Ridge, Tennessee 37831

February 25, 1988

80 E. Spring Valley Avenue Maywood, New Jersey 07607

RADON, RADON AND THORON DAUGHTER AIR SAMPLING, AND GAMMA SURVEY CONDUCTED AT THE RESIDENCE OF 86 E. SPRING VALLEY AVENUE

At your request, on January 7, 1988, air sampling was performed in the basement of your residence to determine the concentrations of radon, radon daughters, and thoron daughters present. In addition, interior and exterior gamma surveys were also performed.

We are pleased to inform you that all the results were within applicable guidelines, and no further action is planned for your property.

Measurement of radon and radon and thoron daughter concentrations consisted of collecting an air sample in the basement and analyzing it. The presence of radon in your home would have been an indicator of possible radium - 226 contamination around or in your home. The radon measurement in your basement was 0.7 picocuries per liter of air which does not exceed normal background levels of 0.1 to 0.9 picocuries per liter. Areas such as basements, which are not well, ventilated, typically have concentrations on the higher end of this range. No radon or thoron daughter concentrations were detected above natural background levels. Results of the interior and exterior gamma surveys were also within natural background levels.

If you have further questions, please contact Mr. Robert Atkin of my staff at (615) 576-1826.

Since

Peter J. Gross, Director Technical Services Division

P. Allison, Maywood, Borough Clerk

Mary Contra Mary AND AND AND A DECEMBER OF A Charles & L Department of Energy was a set of the set of Oak Ridge Operations Cak Ridge Tennessee 37831 113 Stone Avenue Maywood, New Jersey 07607 A CONTRACTOR OF THE OWNER

During October 1985, a survey was performed on your property to determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to inform you that all measurements are within normal "background" ranges. Background radiation is naturally occurring radiation which comes from the trace amounts of radioactive materials present in all soil. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equal to the background values and are substantially below the DOE quidelines.

Two different types of radiation measurements were taken. For surfaces such as the ground, floors, and walls, a detector capable of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by Maywood Chemical Works. To detect the presence of these radioactive materials in your yard and home, the radiation probe was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-226 contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical Works.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

Sincerely,

E. L. Keller, Director Technical Services Division

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Attachment As Stated

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| RADIATION SURVEY RESULTS AT 113 STORE AVERUE     Type of Resurrements   Number of Resurt Found Background Reage     Gasma Survey Microentgans per hour Continuous scen of 94 204 7-15     Indoor air Bicocuries per liter   1   0.9   3.0   0.10-0.90     *Mithest essurement found on property.   About the normal background values.   4   4   4 | RADIATION SURVEY RESULTS AT 113 STONE AVENUE     Type of<br>Measurement   Number of<br>Measurements   DOE<br>Result   Normal<br>Guideline   Normal<br>Range     Gamma Survey   Nicroentgens per hour<br>Surfaces   Continuous scan of<br>surfaces   9*   20**   7-15     Indoor air<br>maple for<br>redon   Piccouries per liter   1   0.9   3.0   0.10-0.90 |                | 1.9.9 V.        |                                          |                 |                                | ことであるとないので、このであるとうで、                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|------------------------------------------|-----------------|--------------------------------|---------------------------------------|
| Mumber of<br>Measurements   Normal<br>Result   Normal<br>DOG<br>Guideline   Normal<br>Background<br>Range     Microentgens per hour<br>Discretes   Continuous scan of<br>surfaces   9*   20**   7-15     Picocuries per liter   1   0.9   3.0   0.10-0.90                                                                                          | Mumber of<br>Maxwood, NEW JERSEY   DOE<br>Guideline   Normal<br>Background<br>Range     Microentgens per hour   Continuous scan of<br>surfaces   9*   20**   7-15     Picocuries per liter   1   0.9   3.0   0.10-0.90     Nurement found on property.   Normal background values.   3.0   0.10-0.90                                                         | **Above (the n | *Highest meas   | Gamma Survey<br>Indoor air<br>sample for | Neasurement     |                                |                                       |
| BADIATION SURVEY RESULTS AT 113 STONE AVENUE<br>MAYWOOD, NEW JERSEY     Mumber of<br>Measurements   DOE<br>Result   Normal<br>Background<br>Range     sens per hour   Continuous scan of<br>surfaces   9*   20**   7-15     se per liter   1   0.9   3.0   0.10-0.90     and on property.<br>round values.                                         | RADIATION SURVEY RESULTS AT 113 STONE AVENUE<br>MATWOOD, NEW JERSEY<br>Mumber of<br>Measurements Result DOE Background<br>Range<br>sens per hour Continuous scan of 9* 20** 7-15<br>surfaces<br>rs per liter 1 0.9 3.0 0.10-0.90<br>and on property.<br>round values.                                                                                        | iormal backg   | urement fou     |                                          |                 | i.<br>Y                        | · · · · · · · · · · · · · · · · · · · |
| Number of<br>Measurements   Normal<br>DOE<br>Result   Normal<br>Background<br>Range     Continuous scan of<br>surfaces   9*   20**   7-15     1   0.9   3.0   0.10-0.90                                                                                                                                                                            | Number of<br>Measurements   Normal<br>Result   Normal<br>Background<br>Range     Continuous scan of<br>surfaces   9*   20**   7-15     1   0.9   3.0   0.10-0.90                                                                                                                                                                                             |                | nd on property. |                                          | nits            |                                |                                       |
| JERSEY<br>Normal<br>DOE<br>Background<br>Result Cuideline<br>Range<br>Cuideline<br>0.9 3.0 0.10-0.90                                                                                                                                                                                                                                               | JERSEY<br>DOE Normal<br>Background<br>Result Guideline Range<br>an of 9* 20** 7-15<br>0.9 3.0 0.10-0.90                                                                                                                                                                                                                                                      |                |                 | Continuous so<br>surfaces<br>1           |                 | SURVEY RESULTS<br>MAYWOOD, NEW |                                       |
| Normal<br>Background<br>Guideline Normal<br>Background<br>Range   9* 20**   7-15   0.9 3.0   0.10-0.90                                                                                                                                                                                                                                             | Normal<br>Background<br>Guideline Normal<br>Background<br>Range   9* 20**   7-15   0.9 3.0   0.10-0.90                                                                                                                                                                                                                                                       |                |                 |                                          | 1               | AT 113 STO<br>JERSEY           |                                       |
| DOE<br>uidelineNormal<br>Background<br>Range20**7-153.00.10-0.90                                                                                                                                                                                                                                                                                   | DOE<br>uidelineNormal<br>Background<br>Range20**7-153.00.10-0.90                                                                                                                                                                                                                                                                                             |                |                 | 9* <b>8</b><br>0.9                       | Result <b>C</b> | NE AVENUE                      |                                       |
| Background<br>Range<br>7-15<br>0.10-0.90                                                                                                                                                                                                                                                                                                           | Background<br>Range<br>7-15<br>0.10-0.90                                                                                                                                                                                                                                                                                                                     |                |                 | 99<br>                                   | DOE             |                                |                                       |
|                                                                                                                                                                                                                                                                                                                                                    | 10.7.3 2-                                                                                                                                                                                                                                                                                                                                                    |                |                 |                                          | Background      |                                |                                       |
|                                                                                                                                                                                                                                                                                                                                                    | -c.c./0.2                                                                                                                                                                                                                                                                                                                                                    | - <u></u>      |                 |                                          |                 |                                |                                       |



Dear

Department of Energy Oak Ridge Operations P. O. Box E Oak Ridge, Tennessee 37831

MAR 0 7 1986

Maybrook Plaza Apartments 48 Windsor Court, P. O. Box 798. Maywood, New Jersey 07607

During December 1985, a survey was performed on your property to get determine if radiation in excess of normal levels was present. All of the analyses are now complete and we are pleased to infor this symbol you that all measurements are within normal "background" ranges. CE-53 Background radiation is naturally occurring radiation which come in myself from the trace amounts of radioactive materials present in all soil. The results of the radiation survey are attached for your review. Also included are normal background levels for the New Jersey areas as well as applicable Department of Energy (DOE) standards. As you can see, all measurements are essentially equa to the background values and are substantially below the DOE quidelines.

DATE 3/7/2 Two different types of radiation measurements were taken. For surfaces such as the ground, floors, and walls, a detector capabler symbol of measuring gamma radiation was used. Gamma radiation is emitted from all of the radioactive materials which were handled by INITIAL S/SIG. Maywood Chemical Works. To detect the presence of these . . . . . . . . . . . . radioactive materials in your yard and home, the radiation probe DATE was held just above, or in contact with, the surface to be surveyed. The other measurement made consisted of collecting an RTG SYMBOL air sample and analyzing it for radon. The presence of radon in your home would have been an indicator of possible radium-226 INITIALS/SIG. contamination around or in your home. Radium-226 is one of the radioactive materials present in waste from the Maywood Chemical DATE Works.

Once again, all of the measurements taken at your residence show that no radioactive contamination is present. If you have any questions concerning this information, please contact me at (615) 576-0948.

> Sincerely, CRIGINAL SIGNED BY. LOWIELL F. CAMPBELL

INITIALS/SIG. E. L. Keller, Director Technical Services Division DATE

EE18667

CONCURRENCES RTG SYMBOL CE-53 INITIALS/SIG. Atkin DATE

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DATE 3/7/

Attachment As Stated (7-79)

bcc w/encl.: E. DeLaney, NE-23, GTN Paley, NJDEPOFFICIAL FILE COPY D. J. Eng, NJDEP Patricia Allison

# RADIATION SURVEY RESULTS AT 48 WINDSOR COURT MAYWOOD, NEW JERSEY

| Type of<br>Heasurement            | Units                 | Number of<br>Measurements      | Result | DOE<br>Guideline | Normal<br>Background<br>Range |
|-----------------------------------|-----------------------|--------------------------------|--------|------------------|-------------------------------|
| Gamma Survey                      | Hicroentgens per hour | Continuous scan of<br>surfaces | 11*    | 20**             | 7-15                          |
| Indoor air<br>sample for<br>radon | Picocuries per liter  | <b>1</b> .                     | <0.4   | 3.0              | 0.10-0.90                     |

\*Highest measurement found on property.

\*\*Above the normal background values.

BE | 8667

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