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M-603

Formerly Utilized Sites Remedial Action Program (FUSRAP)

ADMINISTRATIVE RECORD

for Maywood, New Jersey



U.S. Department of Energy



DEPARTMENT OF HEALTH & HUMAN SERVICES

146465

Public Health Service

Agency for Toxic Substances
and Disease Registry
Atlanta GA 30333

SEP 23 11 24 AM '96

SEP 12 1996

Ms. Susan Cange, Site Manager
U.S. DOE Former Sites Restoration Division
P.O. Box 2001
Oak Ridge, Tennessee 37831-8723

Dear Ms. Cange:

The Division of Health Assessment and Consultation (DHAC), Agency for Toxic Substances and Disease Registry (ATSDR), has completed an addendum to the residential and vicinity property health consultation for the Maywood Site in New Jersey.

As you requested in your letter dated July 22, 1996, we have evaluated the health risks associated with the level of radiological contamination in the soil around the sandbox and swing set at 22 Long Valley Road, Lodi, New Jersey. Our evaluation was based on contamination levels reported from Bechtel Environmental's sampling and surveys performed prior to and during the remediation and from previous DOE radiological characterization reports. Dose estimates were made for children from one year to ten years of age playing in this area 8 hours per day for 130 days per year, or 4 hours per day for 260 days per year. We considered possible ingestion and inhalation of soil particles, as well as external exposure. The total potential dose for each age group was less than 15 millirem per year (or 0.15 millisievert/year), which is not a level that would pose a health threat.

Enclosed is a copy of the letter we are sending to the resident in response to the concerns expressed in our telephone conversation.

Page 2 - Ms. Susan Cange

If you or other DOE staff have any questions or comments about the information in this letter, please contact me at (404) 639-6060.

Sincerely yours,



Carol Connell
Health Physicist
Energy Section
Federal Facilities Assessment Branch
Division of Health Assessment
and Consultation

Enclosure

CC:
Donna Parang, ORNL

146465



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SEP 12 1996

Mrs. Diane Sartore Bodo
22 Long Valley Road
Lodi, New Jersey 07644

Dear Mrs. Sartore Bodo:

As requested during our telephone conversation on August 16, 1996, the Agency for Toxic Substances and Disease Registry (ATSDR) scientists have evaluated the health risks associated with the level of radiological contamination in the soil around and under the sandbox and swing set in your backyard prior to remediation. We have concluded that the radioactive material concentrations did not pose a health risk to you or your family.

For our evaluation, we used the contamination levels reported from Bechtel Environmental's sampling and surveys performed prior to and during the clean-up of your property and from the Department of Energy's 1988 report, *Radiological Characterization Report for the Residential Property at 22 Long Valley Road, Lodi, New Jersey*. Our evaluation considered children from one year to ten years of age playing in this area 130 days a year, 8 hours per day (or 260 days a year, 4 hours per day). We considered possible ingestion and inhalation of soil particles, as well as external exposure to radioactive materials in the soils.

The total potential dose for each age group from exposure through swallowing, breathing and external exposure was less than 15 millirem per year (or 0.15 millisievert/year). These calculated doses are much less than the allowable level to the public of 100 millirem/year (or 1 millisievert/year) above background levels, and I can assure you that you and your family were not exposed to radiation at levels that pose a health threat.

During our telephone conversation, you also asked about the large excavation area in this section of your yard. I recommend that you discuss this with the Department of Energy or their contractors, since the sample results that we reviewed do not indicate a large area of contamination.

Page 2 - Mrs. Diane Sartore Bodo

If you have any additional questions, please feel free to contact me at (404)639-6060.

Sincerely yours,



Carol Connell
Health Physicist
Energy Section
Federal Facilities Assessment Branch
Division of Health Assessment
and Consultation

cc:

Susan Cange, DOE/FUSRAP
Angela Carpenter, EPA/RII
Donna Parang, ORNL
Arthur Block, RII, ATSDR
Steve Jones, RII, ATSDR