

Health Consultation

Evaluation of Soils at Selected School/Daycare Properties Located
Near Raymark Industries Waste Disposal Areas

RAYMARK INDUSTRIES, INCORPORATED

STRATFORD, FAIRFIELD COUNTY, CONNECTICUT

EPA FACILITY ID: CTD001186618

FEBRUARY 13, 2007

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Public Health Service

Agency for Toxic Substances and Disease Registry

Division of Health Assessment and Consultation

Atlanta, Georgia 30333

Health Consultation: A Note of Explanation

An ATSDR health consultation is a verbal or written response from ATSDR to a specific request for information about health risks related to a specific site, a chemical release, or the presence of hazardous material. In order to prevent or mitigate exposures, a consultation may lead to specific actions, such as restricting use of or replacing water supplies; intensifying environmental sampling; restricting site access; or removing the contaminated material.

In addition, consultations may recommend additional public health actions, such as conducting health surveillance activities to evaluate exposure or trends in adverse health outcomes; conducting biological indicators of exposure studies to assess exposure; and providing health education for health care providers and community members. This concludes the health consultation process for this site, unless additional information is obtained by ATSDR which, in the Agency's opinion, indicates a need to revise or append the conclusions previously issued.

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HEALTH CONSULTATION

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**Prepared by
The Connecticut Department of Public Health
under cooperative agreement with
The Agency for Toxic Substances and Disease Registry**

The conclusions and recommendations in this health consultation are based on the data and information made available to the Connecticut Department of Public Health and the Agency for Toxic Substances and Disease Registry. The Connecticut Department of Public Health and the Agency for Toxic Substances and Disease Registry will review additional information when received. The review of additional data could change the conclusions and recommendations listed in this document.

BACKGROUND AND STATEMENT OF ISSUE

In October 2006, the Stratford Health Department (SHD) requested that the Connecticut Department of Public Health (CTDPH) review soil testing data and make public health determinations for several daycare and school properties in Stratford that were initially investigated by EPA thirteen years ago as part of environmental studies of the Raymark Industries disposal sites. In the early and mid-1990s, EPA conducted site investigation activities at over 500 properties in Stratford that were suspected to have received waste materials from Raymark Industries, Inc. EPA defined Raymark Waste as material containing:

- Lead at a concentration greater than 400 parts-per-million [ppm], **AND**
- Aroclor 1268 (a polychlorinated biphenyl [PCB]) at a concentration more than 1 ppm, **AND EITHER,**
- Chrysotile asbestos, at a concentration greater than 1%, **OR**
- Copper at a concentration more than 228 ppm.

(Stratford, 1994).

The contaminant levels in the Raymark Waste definition are health-based and have historically been used as cleanup levels appropriate for residential settings (including schools and daycares). Where possible, EPA cleaned up all Raymark waste on residential properties. Plans for cleaning up some municipal and commercial properties are still being evaluated. At the time the EPA investigations were conducted, CTDPH, in consultation with the Agency for Toxic Substances and Disease Registry (ATSDR) reviewed data for most of the 500 properties and issued Public Health Implication Statements (PHISs) for each property. Each PHIS outlined the public health implications for the specific property and made recommendations for further actions, if necessary. For six school/daycare properties, a preliminary assessment was issued by ATSDR (ATSDR Record of Activity), but a final PHIS was never prepared. In order to reach closure on these properties, CTPDH was asked by the SHD to review soil data for each of these six properties and issue final PHISs.

DISCUSSION

For each property, CTDPH reviewed soil testing results from its own files as well as testing results contained in the Stratford Environmental Cleanup Website database¹

¹ The Stratford Environmental Cleanup database is a searchable database of Raymark Waste environmental testing and cleanup information that was created by the Town of Stratford (at the request of the US Environmental

(<http://stratford.greenriver.org>). For all the properties, results of surface soil samples were available. In some cases, soils below the surface were tested as well. For each property, the CTDPH compared contaminant concentrations in soil with the contaminant concentrations in the definition of Raymark Waste. In cases where a recommendation was made for additional data collection, CTDPH checked the files to confirm that such data were collected. The definition of Raymark Waste was not met at any of the properties reviewed². However, at three of the six properties, lead was detected at concentrations above 400 mg/kg (550 mg/kg to 1087 mg/kg). At these three properties, children may be playing in soil contaminated with lead, therefore the possibility that a health threat may exist cannot be ruled out at this time. At the other three properties, contaminants were not detected above the concentrations in the Raymark Waste definition.

A discussion of potential exposure pathways and potential health impacts from exposure to Raymark waste already has been presented in the Public Health Assessment for the Raymark Industries site (ATSDR 1996). The health basis for the concentration thresholds in the Raymark Waste definition is presented in three ATSDR Records of Activity (ATSDR 9/8/93; ATSDR 11/10/93; ATSDR 9/30/97).

CONCLUSIONS AND RECOMMENDATIONS

CTDPH has reviewed files for six schools/daycares in Stratford which were identified by the SHD as missing final Public Health Implication Statements. Based on the available information, CTDPH has reached the following conclusions regarding public health implications from exposure to soils at these properties.

Public Health Implication Statements

1. No Public Health Threat, No Further Action Necessary

Based on the available soil testing data, CTDPH has determined that the three properties listed below pose no public health threat at this time. No further actions are needed at this time for these properties.

144 Meadowmere Road (Pumpkin Patch Day Care)
150 Chapel Street (Grace Lutheran Nursery)
1775 Huntington Road (Treehouse Nursery School)

2. Refer to Local Health Department for Follow Up

Properties listed below have been referred to the Stratford Health Department by CTDPH because soil results show the presence of levels of lead above 400 ppm, that could possibly present a public health threat. Other constituents indicative of Raymark Waste were not present. Therefore, the presence of lead in soil may be due to lead-based paint and will be investigated by

Protection Agency and the CT Department of Environmental Protection). Its purpose is to make the testing results and cleanup information easy to find and use.

² If Raymark Waste was present, EPA would have remediated the property years ago.

the SHD as it deems appropriate. CTDPH is working with the SHD to assist as needed in any investigations or other actions taken at these properties.

2110 Main Street (former St. James Daycare, no daycare is currently licensed by CT DPH at this address)

61 California Street (Sunny Days Preschool, formerly Honey Bear Learning Center)

868 East Broadway (Helen King School)

REFERENCES

Agency for Toxic Substances and Disease Registry Record of Activity, September 8, 1993.

Agency for Toxic Substances and Disease Registry Record of Activity, November 10, 1993.

Agency for Toxic Substances and Disease Registry Record of Activity, September 30, 1997.

Public Health Assessment for Raymark Industries, Stratford, Connecticut, Agency for Toxic Substances and Disease Registry, September 25, 1996.

Stratford Environmental Cleanup Website database, <http://stratford.greenriver.org>

Stratford Connecticut Residential Property Investigation and Excavation Protocol, August 30, 1994.

CERTIFICATION

The Health Consultation for **Evaluation of Soils at Selected School/Daycare Properties Located Near Raymark Industries Waste Disposal Areas**, was prepared by the Connecticut Department of Public Health under a cooperative agreement with the Agency for Toxic Substances and Disease Registry (ATSDR). It is in accordance with approved methodology and procedures existing at the time the health consultation was initiated.

Technical Project Officer, SPS, SSAB, DHAC

The Division of Health Assessment and Consultation (DHAC), ATSDR, has reviewed this Health Consultation and concurs with its findings.

Team Lead, CAT, CAPEB, DHAC, ATSDR

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