

**Department of Energy**

Field Office, Oak Ridge
P.O. Box 2001
Oak Ridge, Tennessee 37831-8723

SLDS
Administrative
Record
9808201028

April 13, 1993

TO:

Mr. Robert F. Boland
Environmental Program Manager
Mallinckrodt Specialty Chemicals Company
16305 Swingley Ridge Drive
Chesterfield, Missouri 63017

Dear Mr. Boland:

ST. LOUIS DOWNTOWN SITE - Building with Access-Restricted Soils

As discussed in our January 6, 1993, meeting, the U. S. Department of Energy (DOE) is considering a number of cleanup alternatives for the St. Louis Downtown Site (SLDS). One aspect of the cleanup evaluation is considering how to address the "access-restricted" contaminated soil under buildings and other permanent structures. During our discussions, you asked for a list of buildings that DOE believes could potentially be classified as having contaminated, access restricted soils under them.

A number of factors pertinent to the cleanup evaluation considerations for contaminated soils are listed below:

- Source of contamination
 - Manhattan Engineering District/Atomic Energy Commission (MED/AEC) activities.
 - Non-Med/AEC activities.
 - Combination of MED/AEC and Non-MED/AEC activities.
- Areal location, depth, and level (specific activity) of radioactive contamination in the soil.
- The short- and long-term potential risks to human health and the environment and cost for both leaving in place and removing (including evaluation of structural demolition or underpinning) the soil.
- Accessibility of soil for cleanup
 - Overlying physical plant infrastructure (e.g., building, large tank, piping system).
 - Schedule for owner removing an overlying structure.

Mr. Robert F. Boland

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DOE currently is performing a comprehensive evaluation of the sources of radiological contamination at SLDS. Previous characterization efforts have identified at least twelve buildings that appear to have contaminated soil under them (Table 1). As site evaluation continues, it is possible that more buildings could be added. Depending on the nature and permanence of other existing plant infrastructure, additional areas such as active railroad beds may be considered as access restricted.

During the course of this evaluation, DOE would welcome information on Mallinckrodt's future plans for areas and building on the SLDS that may have contaminated soils beneath them. Such information will be taken into consideration during cleanup evaluations.

If you have any questions, please call me at (615) 576-9634.

Sincerely,



David G. Adler, Site Manager
Former Sites Restoration Division

Enclosure