

**Department of Energy**

Oak Ridge Operations Office
P.O. Box 2001
Oak Ridge, Tennessee 37831— 8723

SLDS
Administrative
Record
9809301046

January 24, 1997

Mr. Robert Geller, Chief
Federal Facilities Section
Missouri Department of Natural Resources
P. O. Box 176
Jefferson City, Missouri 65102-0176

Dear Mr. Geller:

**RESPONSE TO MDNR'S COMMENTS ON THE SLDS PLANT 2 SUPPLEMENTARY
BOUNDARY DELINEATION PLAN**

On November 5 and 14, 1996, the Missouri Department of Natural Resources (MDNR) submitted recommendations to the Department of Energy (DOE) regarding the St. Louis Downtown Site (SLDS) Plant 2 boundary delineation plan. MDNR's recommendations specifically addressed the sampling frequency, identification of potential contaminants of concern, and field implementation procedures associated with this boundary delineation activity. These recommendations have been resolved through teleconferences with Mr. Mitch Scherzinger, and on a site visit by MDNR on November 8, 1996. The purpose of this letter is to document actions previously taken to address your recommendations.

- MDNR recommended that soil samples submitted for chemical analyses, be analyzed for volatile and semi-volatile organic compounds utilizing test methods 8260 and 8270 respectively.

These analytical methods were designated for those samples submitted for chemical analyses.

- MDNR recommended that metals analyses include arsenic, barium, boron, cadmium, chromium, lead, selenium, mercury, beryllium, aluminum, manganese, zinc, nickel, antimony, vanadium and cobalt and copper for groundwater and/or soil samples submitted for analyses.

These analytes were requested for all samples submitted to the laboratory for metals analyses.

- MDNR recommended the collection of chemical samples from split spoon boreholes for total metals, volatile organics, and semi-volatile organic analyses at five and ten foot depths. Further, it was requested that any field observation that would lead to suspicions that chemicals were present at other locations be documented. Where these observations (soil discoloration, IH monitoring results, etc.) warranted, additional samples for volatile organics would be collected.

In areas where field screening indicated residual radioactive contamination, samples were collected and analyzed for the recommended analytical parameters. Also, results of the above observations and monitoring results were documented in the field log book.

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- MDNR recommended that radon flux monitoring take place beneath the building slab of the former 50 Series Buildings.

This issue has been discussed with Mr. Mitchell Scherzinger, and it was agreed that the removal of the building would alleviate the potential for any radon to collect within the enclosed spaces. The building floor slab will remain in place until the building subgrade is remediated. It should be noted that all soils samples collected for radioactivity parameters beneath the buildings, will include radium analyses.

- MDNR requested that photographs be taken of the soil cores, as well as maintaining a field log documenting the sampling activity.

Photographs were obtained for several of the soil borings beneath the 50 Series Building. It should also be noted that very detailed logbooks, both geologic, and field sample collection, were maintained during all activities. Any observation related to applicable MDNR requests were documented in these logs.

The actual field boundary delineation sampling campaign was conducted at the Plant 2 area from November 4-14, 1996. All sample results are expected to be available by mid-February. Please contact Wayne Johnson at (423) 576-5165 if you have additional questions or comments regarding these responses or our characterization results.

Sincerely,



David G. Alder, Site Manager
Former Sites Restoration Division

cc: Mr. Mitch Scherzinger, MDNR
Mr. Dan Wall, U. S. EPA
Mr. Jack Fraunhoffer, Mallinckrodt Chemical Inc.