

Technical Review of the Mound Site

Summary

by **EHS TECHNOLOGY GROUP, LLC**

Reference Document: PRS 87 Action Memo/EE/CA for Removal Action of Volatile Organic Compound (VOC) Contaminated Soils, November 2004, Public Review Draft.

Purpose: The purpose of this document is to document and allow public comment on the propped Removal Action at PRS 87.

Assessment of Review: PRS 87 refers to the location of the solvent storage sheds that supplied solvents to the cleaning operations performed in Building 49. The first of these sheds was located under what was subsequently the northwest corner of Building 49. The second shed, built after the Building 49 addition displaced the original shed, was located approximately 100-feet east of the Building 49 addition. Records indicate that both sheds were used for similar operations, including the storage and supply of trichloroethene (TCE), isopropyl alcohol, and ethyl alcohol. While in operation, the solvents were piped from the sheds into the building for use. Spent solvents were piped back to the shed and stored in 55 gallon waste drums. Freon and hexane, used for parts cleaning, were also occasionally stored here. There were no site records of any leaks or spills from these sheds.

Technical Analysis: Four separate sampling events were performed around the perimeter of Building 49, underneath Building 49, through the floor slab and in the utility trench drain. The sampling results show TCE, cis-1,2 dichloroethene (DCE) and vinyl chloride (VC) in both soils and groundwater. The highest detections in soils were 23 ppm TCE, 11 ppm DCE and 0.4 ppm VC. The highest groundwater detections were 0.16 ppm TCE, 17 ppm DCE and 3.5 ppm VC. A model of the PRS 87 site was developed using this sampling data and locations. The model predicted that leaching of VOCs into the groundwater could be a potential problem. As a result, the Core team recommended Removal Action for this PRS. As part of this Action Memo, other alternative technologies were investigated; however, soils removal was found to be the preferred alternative.

As always, coordination between CH2M Hill, the cleanup contractor at the Mound site, and Miamisburg Mound Community Improvement Corp. (MMCIC - the developer of the site) will result in the return of these areas to that proposed in the Mound Comprehensive Reuse Plan.

Substantive Comments: EHS concurs with the proposed Removal Action for PRS 87 soils. Coordination between CH2M Hill, the DOE and MMCIC is important to ensure that the PRS 87 site is left in a condition consistent with the Mound Reuse Plan.

EHS, along with MMCIC, will monitor the progress of the removal action. Notification of the Verification Sampling and Analysis Plan and the On-Scene Coordinator Report for this site would be appreciated.

If EHS's understandings are correct, no specific response to the above comment is necessary, and we understand that these comments will be included in the OSC report.