

Technical Review of the Mound Site

Summary

by **EHS TECHNOLOGY GROUP, LLC**

Reference Document: Building 36 Dock: Plutonium 238 Contamination Public Fact Sheet, April 2004

Purpose: The purpose of this document is to confirm that the exterior dock of Building 36, shown to be contaminated with plutonium 238, has been properly remediated.

Assessment of Review: The dock is located on the western side of Building 36. During a pre-demolition survey of the building, the dock was found to be contaminated. Because the interior of Building 36 did not have any elevated readings for plutonium it is believed that the contaminated did not originate inside the building. It is not known how the dock area became contaminated.

Technical Analysis: Sampling of the dock found elevated levels of plutonium with the highest alpha fixed activity measuring 259 dpm/100 cm². The Core Team requested a removal action. The removal was completed in accordance with the Building 36 Demolition work plan (6/25/03). Sampling around the dock location, including soils samples, have been collected to ensure the cleanup is complete. The results will be included in the On-Scene Coordinator Report. Both EHS and Manisburg Mound Community Improvement Corp (MMIC) request a copy of the On-Scene Coordinator report to confirm that the area is cleanup and the remediation is both effective and complete.

As always, coordination between CH2MHill, the cleanup contractor at the Mound site, and Manisburg Mound Community Improvement Corp. (MMIC - the developer of the site) will result in the return of this area to that proposed in the Mound Comprehensive Reuse Plan.

Substantive Comments: EHS concurs with the removal action of the Building 36 Dock. The sampling performed on the building near the dock and in the soils surrounding the dock will confirm whether the remediation is complete. Contingencies are in place should the samples show further cleanup is necessary. The results will be included in the On-Scene Coordinator Report. Both EHS and Manisburg Mound Community Improvement Corp (MMIC) request a copy of the On-Scene Coordinator report to confirm that the area is cleanup and the remediation is both effective and complete.

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.