

Radiological Oversight Report Defense National Stockpile Center; New Haven Depot



September 2004



**DEFENSE NATIONAL STOCKPILE CENTER
NEW HAVEN DEPOT
RADIOLOGICAL OVERSIGHT REPORT**

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Prepared for:

Defense Logistics Agency
Defense National Stockpile Center
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Executive Summary

An audit was conducted of the radiological remediation project underway at the Defense National Stockpile Center (DNCS) – New Haven, Indiana. The audit was performed on 6 September 2004 by Mr. Clif Gray of ERS Solutions, Inc. The purpose of the audit was to ensure radiological compliance with federal, state, and local regulations and with documents submitted for this effort by the contractor performing the remediation. The visit was scheduled to coincide with the additional excavation of the project. At the time of the site assessment approximately 50% of the additional excavation had been completed. The audit included observation of radiological surveys, excavation of contaminated materials, review of radiological documents, and review of records.

A review of the excavation process to remove additional contamination from ~6 inches below ground surface (bgs) to ~15 inches bgs in isolated areas was performed. Areas of contamination were found at depths of ~36 inches bgs in several areas. The efforts as presently scoped do not meet the needs for unrestricted release required upon completion of removal actions. No observations were found concerning the documentation, health and safety, or radiological controls for the project. Previous findings had been addressed and documentation was current. Radiological coverage greatly improved with the addition of a full-time health physics technician and was found to be adequate for coverage as identified in the work plan.

1.0 Observations

Observations are defined as areas identified during the audit as needing improvement by the contractor. The observations listed below are not to be taken as directives for the on-site contractor to implement, but should be taken under consideration for improvement for their program.

1.1 Excavation Process

Additional excavation was proposed and approved to remove identified areas exceeding twice background in areas where the initial 6-inches had been removed. The contractor had previously identified these areas and had proposed an additional excavation up to 15-inches bgs. The contractor had proposed this depth based upon isolated trenching operations in limited areas that exceeded twice background.

Observation

The audit confirmed areas exceeding the target cleanup goal existed beyond the planned depth of ~15 inches bgs. Operations for the identification of the depth of contamination were not of sufficient information to correctly identify the correct depth of excavation for removal of contamination.

Recommendations

Cessation of excavation activities upon completion of removal to proposed depth of ~15-inches bgs in areas exceeding twice background and final survey of site. A new characterization of the

site designed to determine the depth, extent, and migration of the contamination should be performed.

2.0 Conclusion

The purpose of the site visit was to determine if activities were being performed in accordance with applicable regulations and guidance documents. Findings identified issues with continuance of activities until the site can be adequately characterized.

Certification

The following certification applies to a audit conducted on 06 September 2004 at the following facility:

Defense National Stockpile Center, New Haven, Indiana
15411 Dawkins Road
New Haven, IN 46774-9644

I certify that the information stated in this report is based on a thorough review and investigation of the DRMO facilities and completion of site radiological surveys of the storage locations for radioactive commodities, and interviews with selected personnel at DRMO. The contents of this report are true and correct to the best of my knowledge and belief.

Clifton A. Gray
Health Physicist
ERS Solutions, Inc.

Date