

IX. RECOMMENDATIONS AND FOLLOW-UP ACTIONS

Issue	Recommendations/Follow-up Actions	Lead Agency	Stakeholder Agencies	Milestone Date	Affects Protectiveness (Y/N)	
					Current	Future
Residual radioactivity concentrations in the SLDS inaccessible soil on vicinity properties	USACE is developing the CERCLA documentation necessary to address inaccessible soil at the SLDS. A Long-Term Stewardship Plan will be prepared to document processes and procedures with respect to requirements under CERCLA.	USACE	EPA DOE MDNR	Ongoing.	N	Y
Thin Cover Material at the HISS	USACE will continue to monitor the site to ensure that erosion does not result in an off-site discharge. USACE will reseed the cover material at the HISS to increase the vegetative cover present at the site. If unsuccessful through reseeding, other options (e.g., crushed rock, sod, geomembrane, clean soil) will be considered to address the issue.	USACE	EPA DOE MDNR	Ongoing.	N	Y

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X. PROTECTIVENESS STATEMENT

Protectiveness Statement (St. Louis Downtown Site)

The remedy being implemented at the SLDS Operable unit is expected to be protective of human health and the environment upon attainment of the cleanup goals established in the ROD. In the interim, exposures that could result in unacceptable risks are being controlled through access controls and work place management practices. Some areas with soil contamination deeper than four feet and some areas with contamination under permanent structures will be managed in place using institutional controls to limit use. Long-term groundwater monitoring is being used to confirm that the remedy is protective of the alluvial aquifer.

Protectiveness Statement (North St. Louis County Sites)

The removal actions being implemented at the North St. Louis County Sites operable unit are expected to be protective of human health and the environment upon attainment of the soil cleanup goals established in the EE/CAs. In the interim, exposures that could result in unacceptable risks are being controlled through access controls, surveillances and maintenance, and coordination with property owners and utility companies. In May 2003, the USACE published a Proposed Plan for remedial action designed to address all remaining contamination at the North St. Louis County Sites. Public comment has been received. A ROD is currently under development and will be made available upon finalization.

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XI. NEXT REVIEW

The next five-year review for the North St. Louis County sites and the SLDS is required by September 8, 2008, five years from the date of this review.

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XII. REFERENCES

BNI, 1994. *Remedial Investigation Report for the St. Louis Site, St. Louis, Missouri*. DOE/OR/21949-280. U.S. Department of Energy, Oak Ridge Operations Office, Oak Ridge, TN, January.

U.S. Department of Energy (DOE), 1991. *Engineering Evaluation/Cost Analysis for Decontamination at the St. Louis Downtown Site, St. Louis, Missouri*, DOE/OR/23701-02.2. May.

DOE, 1992. *Action Memorandum for the Removal of Contaminated Materials at the St. Louis Downtown Site, St. Louis, Missouri*, Memorandum from L.K. Price (OR-FSRD) to File, CCN 086138 (February 27).

DOE, 1992. *Engineering Evaluation/Cost Analysis – Environmental Assessment for the Proposed Decontamination of Properties in the Vicinity of the Hazelwood Interim Storage Site, Hazelwood, Missouri*, DOE/EA-0489, Rev.1. May.

DOE, 1995. *St. Louis Site – Action Memorandum for Vicinity Property Cleanups*, Memorandum from L.K. Price (OR-FSRD) to File, CCN 130703 (June 2).

DOE, 1997a. *St. Louis Airport Site (SLAPS) Interim Action Engineering Evaluation/Cost Analysis (EE/CA), St. Louis, Missouri*, DOE/OR/21950-1026, Final. September.

DOE, 1997b. *SLAPS Action Memorandum for the Removal of Radioactively Contaminated Material*, Memorandum from Steve McCracken (St. Louis Site Manager) to File, (September 17).

IT Corporation (IT), 1999a. *Plant 2 Remedial Action Work Area-Specific Description and Design Package FUSRAP St. Louis Downtown Site, St. Louis, Missouri*. Rev. 2. October.

IT, 1999b. *Pre-Design Investigation Summary Report, Plant 1, St. Louis Downtown Site, St. Louis, Missouri*, Revision 0, December 9, 1999.

IT, 2000. *Pre-Design Investigation Data Summary Report, Plants 6 East Half and 6E, FUSRAP St. Louis Downtown Site, St. Louis, Missouri*, Revision 0, August 18, 2000.

IT, 2001a. *Pre-Design Investigation Data Summary Report, Midwest Waste Vicinity Property (DT-7), FUSRAP St. Louis Downtown Site, St. Louis, Missouri*, Revision 0, May 3, 2001, Appendix A.1.1 of the *Small Area Remediation Work Area-Specific Description, FUSRAP St. Louis Downtown Site, St. Louis, Missouri*, Revision 0, May 2001.

IT, 2001b. *Pre-Design Investigation Data Summary Report, Heintz Steel and Manufacturing Vicinity Property (DT-6), FUSRAP St. Louis Downtown Site, St. Louis, Missouri*, Revision 0, July, 2001, Appendix A.4.1 of the *Small Area Remediation Work Area-Specific Description, FUSRAP St. Louis Downtown Site, St. Louis, Missouri*, Revision 0, May 2001.

IT, 2003. *Mallinckrodt Plant 7E Remediation Activity Work Description, FUSRAP St. Louis Downtown Site, St. Louis, Missouri*, Revision 0, May 27, 2003, Appendix A.7.1 of the *Small Area Remediation Work Area-Specific Description, FUSRAP St. Louis Downtown Site, St. Louis, Missouri*, Revision 0, May 2001.

Oak Ridge National Laboratory (ORNL), 1981. *Radiological Survey of Mallinckrodt Chemical Works, St. Louis, Missouri*, December.

Science Applications International Corporation (SAIC), 1995. *Remedial Investigation Addendum for the St. Louis Site*, St. Louis, MO, DOE/OR-21950-132. September.

Stone & Webster, 2000. *Pre-Design Investigation Summary Report, East End & Right-Of-Way Work Areas, FUSRAP St. Louis Airport Site, St. Louis, Missouri*, Revision 0, July 28, 2000.

Stone & Webster, 2001a. *Pre-Design Investigation Summary Report, Phase 1 Work Area, FUSRAP St. Louis Airport Site, St. Louis, Missouri*, Revision 0, January 10, 2001.

Stone & Webster, 2001b. *Pre-Design Investigation Summary Report, Phases 2 and 3 Work Areas, FUSRAP St. Louis Airport Site, St. Louis, Missouri*, Revision 0, June 26, 2001.

U.S. Army Corps of Engineers (USACE), 1998a. *Engineering Evaluation/Cost Analysis (EE/CA) for the Hazelwood Interim Storage Site (HISS), St. Louis, Missouri*, Final, October.

USACE, 1998b. *Action Memorandum for the Removal of Radioactively Contaminated Material at the Hazelwood Interim Storage Site and Latty Avenue Vicinity Properties*. June.

USACE, 1998c. *Record of Decision for the St. Louis Downtown Site (ROD)*, St. Louis, Missouri, Final, October.

USACE, 1998d. *SLAPS Construction Work Plan (CWP)*, Final, June 25.

USACE, 1999a. *USACE Engineering Evaluation/Cost Analysis (EE/CA) and Responsiveness Summary for the St. Louis Airport Site (SLAPS) and Action Memorandum*, St. Louis, Missouri, March.

USACE, 1999b. *Final Post-Remedial Action Report for the St. Louis Downtown Site City-Owned Vicinity Property*, St. Louis, Missouri.

USACE, 1999c. *Final Post-Remedial Action Report for St. Denis Bridge Area*. Final.

USACE, 1999d. *Annual Environmental Monitoring Data Analysis Report for CY98*. Final.

USACE, 2000a. *Radium Pits Removal Action Work Plan*, February 28. Final.

USACE, 2000b. *Site Wide Removal Action Work Plan*, March 3. Final.

USACE, 2000c. *SLAPS Investigation Area 9 Final Status Survey Evaluation, Berkeley Salt Storage Area (IA-9 Survey Unit 1)*. Final

USACE, 2000d. *Pre-Design Investigation Summary Report HISS Main Pile Removal Action*. Final.

USACE, 2000e. *Results of East Soil Piles and HISS Spoil Piles Characterization, St. Louis, Missouri*. Final, April.

USACE, 2000f. *Annual Environmental Monitoring Data Analysis Report for CY99*. Final.

USACE, 2001a. *SLAPS Implementation Report, St. Louis, Missouri*, June 2001. Final.

USACE, 2001b. *Phase I Work Description*, May 22. Final.

USACE, 2001c. *Phase 2 and 3 Work Description*, August 29. Final.

USACE, 2001d. *Vicinity Property 38 Removal Action Summary Revision 3*. Final, April.

USACE, 2001e. *Radium Pits Removal Action Survey Report, FUSRAP SLAPS*. Final.

USACE, 2001f. *Final Status Survey Evaluation for SLDS, City Owned Property North (MSD Salisbury Lift Station) Vicinity Property*. Final.

USACE, 2001g. *Annual Environmental Monitoring Data Analysis Report for CY00*. Final.

USACE, 2001h. *Final Community Relations Plan For The St. Louis FUSRAP Sites Revision 3 St. Louis, Missouri*. Final.

USACE, 2002a. *Post-Remedial Action Report for the Accessible Soils With In the SLDS Plant 2 Property*. Final.

USACE, 2002b. *Final Status Survey Evaluation for SLDS, Archer Daniels*. Final.

USACE, 2002c. *Annual Environmental Monitoring Data Analysis Report for CY01*. Final.

USACE, 2003a. *Phase I Ground-Water Remedial Action Alternative Assessment (GRAAA) at SLDS, St. Louis, Missouri*, Final, June.

USACE, 2003b. *Feasibility Study for the St. Louis North County Site, St. Louis, Missouri*, Final.

USACE, 2003c. *Proposed Plan for the St. Louis North County Site, St. Louis, Missouri*, Final.

USACE, 2003d. *Draft (Revision C) VP-2 (L) Building Roof Remediation Final Status Survey Evaluation Report*. Draft.

USACE, 2003e. *Annual Environmental Monitoring Data Analysis Report for CY2002, St. Louis, Missouri*. Final.