EPA ID / SITE ID	SITE NAME / STREET 1 / STREET 2 / CITY / COUNTY NAME	STATE / COUNTY (FIPS) CODE	ZIP CODE	LATITUDE / LONGITUDE / SOURCE	SMSA / HYDRO UNIT	OU	ACTION CODE, NAME	SEQ	ACTUAL START DATE	ACTUAL COMPLETE DATE	CURRENT ACTION LEAD
MO2210090054	LAKE CITY AAP - 139 W CENTRAL PORTION			39D05M36S	3760		CONGRESSIONAL DISTRICT: 04				
0701747	139 W CENTRAL PORTION HWY 78			094D25M06S	10300101		OWNERSHIP: Federally Owned				
							NPL STATUS: A				
	INDEPENDENCE	MO	64050				FEDERAL FACILITY: Y				
	JACKSON	29095					NON-NPL STATUS: N/A				
	Site Aliases: USARMY LAKE CITY AAP (FINDS),,,MO,;										
	Site Description: COMBINED WITH LAKE CITY ARMY AMMUNITION PLANT (MO3213890012). RCRA FLAG.COMBINED WITH LAKE CITY ARMY AMMUNITION PLANT (MO3213890012). RCRA FLAG.										
	.					00	DS DISCVRY	001	06/09/1987		EPA Fund
MO3210090053	LAKE CITY AAP - 85 N S CENTRAL PORTION			39D05M36S	3760		CONGRESSIONAL DISTRICT: 04				
0701755	85 N S CENTRAL PORTION HWY 78			094D25M06S	10300101		OWNERSHIP: Federally Owned				
							NPL STATUS: A				
	INDEPENDENCE	MO	64050				FEDERAL FACILITY: Y				
	JACKSON	29095					NON-NPL STATUS: N/A				
	Site Aliases: LAKE CITY AAP,,,MO,;USARMY LAKE CITY AAP (FINDS),,,MO,;										
	Site Description: COMBINED WITH LAKE CITY ARMY AMMUNITION PLANT (MO3213890012). RCRA FLAG.COMBINED WITH LAKE CITY ARMY AMMUNITION PLANT (MO3213890012). RCRA FLAG.										
	.					00	DS DISCVRY	001	06/09/1987		EPA Fund

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MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST			+39.103000	3760		CONGRESSIONAL DISTRICT: 05				
0701757	JCT OF HWY 7 & HWY 78			-094.278300	10300101		OWNERSHIP: Government Owned / Contractor Operated				
				EPA HQ			NPL STATUS: F				
	INDEPENDENCE	MO	64050				FEDERAL FACILITY: Y				
	JACKSON	29095					NON-NPL STATUS: N/A				
							NPL UPDATE NUMBER: 7				

Site Aliases: LAKE CITY AAP 139 W CENTRAL PORTION,139 W CENTRAL PORTION HWY 78,INDEPENDENCE,MO,64050;LAKE CITY AAP 65 W CENTRAL PORTION,65 W CENTRAL PORTION HWY 7 & 78,INDEPENDENCE,MO,64050;LAKE CITY AAP 85N S CENTRAL PORTION,85N S CENTRAL PORTION HWY 78,INDEPENDENCE,MO,64050;LAKE CITY AAP NW LAGOON SS#07AT,,,MO,;LAKE CITY AAP,,,MO,;LAKE CITY ARMY AMMU. PLANT (NW LAGOON),JCT OF HWY 7 & HWY 78,INDEPENDENCE,MO,64050;LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON),JCT OF HWY 7 & HWY 78,INDEPENDENCE,MO,64050;LAKE CITY ARMY AMMUNITION PLANT,JCT OF MO HWY 7 & HWY 78,INDEPENDENCE,MO,67128;NW LAGOON,,,MO,;USARMY LAKE CITY AAP (FINDS),,,MO,;

Site Description: Lake City Army Ammunition Plant (LCAAP) is a 3,935-acre facility in Jackson County, Missouri. LCAAP was established in the early 1940s and was the first government-owned facility constructed to expand small arms ammunition production. Construction at the facility began in December 1940, and was completed in October 1941. The Plant has operated continuously since 1941, except for a 5-year period between World War II and the Korean Conflict. The operating contractor from 1941 to 1985 was Remington Arms. Olin Corporation became the operating contractor in November 1985, and continues to operate the plant on behalf of the Army. The Army, the Environmental Protection Agency (EPA), and the Missouri Department of Natural Resources (MDNR) signed a Federal Facility Agreement that became effective November 1989.

Operable Unit 1:

The Army, USEPA Region 7, and MDNR signed a CERCLA Section 120 Federal Facility Agreement (FFA) that went into effect on November 28, 1989. The FFA identifies the roles and responsibilities of the parties for response actions at LCAAP. The FFA states that properly selected remedial actions shall satisfy the groundwater corrective action requirements for the Resource Conservation and Recovery Act (RCRA)-regulated units within Areas 1, 2, 4, 5, 6, 7, and 8, which were not clean-closed. The Army has implemented and is maintaining the closure and post-closure care requirements for the RCRA-regulated units within Areas 1, 2, 4, 5, 6, 7, and 8. The remedial action that has been selected in accordance with this ROD for Area 9 will address the applicable substantive RCRA closure and post-closure requirements for the mercurous nitrate storage area near Building 60.

Groundwater is the principal source of water supply for LCAAP. The Lake City Aquifer serves as the principal aquifer of the Lake City area and is used extensively by LCAAP for all of its industrial and drinking water needs. There are 12 production wells screened in the lower portion of the Lake City Aquifer beneath LCAPP. In 2007, the production wells at LCAAP provide approximately 1.7 million gallons per day (gpd) of water on average. Production wells 17AA (Area 20) and 17CC (Area 12) produce approximately 50 percent of the facility's potable water supply, with the remaining production wells supplying the rest. Many of the production wells have air strippers associated with them, and the groundwater is treated prior to delivery to the water supply system. Three extraction wells (17R, 17S, and I7FF) are pumped, and the water is treated as part of a groundwater containment system within the Area 18 OU. These three wells extract an additional 571,000 gpd arid discharge the treated water to the Little Blue Valley Sewer District (LBVSD).

Currently, there are no production wells screened in the silt and clay water-bearing unit or the bedrock aquifer. There are no known restrictions on the use of water from any of these units, and these units are classified as potential sources of drinking water unless otherwise demonstrated as not being viable sources; however, groundwater occurring in the clay water-bearing and bedrock units is considered a negligible component of the overall hydrologic budget at Lake City. It should be noted the Army family housing residences on site do not use the LCAAP water system, but are supplied potable water by the City of Independence instead.

Area 1 is located within the active manufacturing area. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Although Area 1 is not currently being used, it is maintained as an active manufacturing area. People using this area would include LCAAP employees responsible for maintaining the area or utilizing the adjacent areas. Current land use of Area 1 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the Human Health Risk Assessment (HHRA).

Area 2 is within the active manufacturing area. A fence currently surrounds LCAAP, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. In addition, Area 2 is located within the inner fence, which surrounds the currently active manufacturing area, making it difficult for unauthorized visitors or trespassers to access. Current land use of Area 2 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA. Many of the buildings in Area 2 are currently used on a regular basis. People using this area would include LCAAP site employees working in Area 2 and employees responsible for maintaining the area or utilizing the adjacent areas.

Area 3 consists of an open field at the northern boundary of the Installation north of the active manufacturing area. Area 3 is currently unused, and no inhabitable buildings are present. A fence currently surrounds the Installation, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of

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Area 3 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA. Area 3 is currently unused and no inhabitable buildings are present.

Area 4 is located within the active manufacturing area. The buildings in Area 4 are no longer used regularly for production and preparation of high explosives; however, the area is still active, and employees may occasionally utilize some of the buildings. People using this area would include LCAAP site employees accessing one of the buildings and employees responsible for maintaining the area or utilizing the adjacent areas. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 4 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 5 is located within the active manufacturing area. Area 5 buildings are no longer used on a regular basis for production and preparation of high explosives. However, the area is still maintained as an active area within the Installation, and employees may occasionally utilize some of the buildings. People using this area would include LCAAP site employees accessing one of the many buildings and employees responsible for maintaining the area or utilizing the adjacent areas. A fence currently surrounds the LCAAP, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 5 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 6 is located within the active manufacturing area. The buildings in Area 6 are not currently in use, and site workers are not expected to access this Area on a regular basis. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 6 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 7 is located in the active manufacturing area. The buildings in Area 7 consist of the active IWTP and explosive waste incineration processes. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. In addition, Area 7 is located within the inner fence which surrounds the currently active manufacturing area, making it difficult for unauthorized visitors or trespassers to access. Current land use of Area 7 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 8 is located in the southwest comer of the Installation on the boundary of the active manufacturing area and the uplands. Area 8 is currently unused, and no inhabitable buildings are present. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 8 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 9 is located within the active manufacturing area. The buildings in Area 9 are no longer active, and they arc: not used on a daily basis by Installation employees. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. In addition, Area 9 is located within the inner fence, which surrounds the currently active manufacturing area, making it difficult for unauthorized visitors or trespassers to access this site.

Area 12 is located in the western portion of the Manufacturing Area along the western boundary of the installation. The manufacturing areas include office buildings, warehouses, plant buildings, shipping facilities, security facilities, maintenance facilities, a fire station, and other operations associated with manufacturing. People using this area would include LCAAP site employees working in one of the many buildings, and employees responsible for maintaining the area or utilizing the adjacent areas. Current land use of Area 12 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 13 is located within the active manufacturing area. Many of the buildings in Area 13 are currently used on a regular basis. People using this area would include LCAAP site employees working in Building 35 or one of the other complexes and employees responsible for maintaining the area or utilizing the adjacent areas. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. In addition, Area 13 is located within the inner fence, which surrounds the currently active manufacturing area, making it difficult for unauthorized visitors or trespassers to access. Current land use of Area 13 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 14 is located north of the active manufacturing area. The current land use at Area 14 is as a bulk fuel storage facility. The Area may also potentially be used for rail car storage during the winter months. People accessing this area would include LCAAP employees responsible for maintaining the fuel storage facilities. Properties located north of Area 14, outside the perimeter fence, are predominantly residential. A fence currently surrounds the LCAAP, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 14 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the H1IRA.

Area 15 is located within the active manufacturing area. Area 15 contains buildings that support the manufacture and storage of primer compounds. Many of the buildings in Area 15 are currently used on a regular basis. People using this area would include LCAAP site employees working in or accessing one of the several buildings and employees responsible for maintaining the area or utilizing the adjacent areas. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. In addition, Area 15 is located within the inner fence, which surrounds the currently active manufacturing area, making it difficult for unauthorized visitors or trespassers to access. Current land use of Area 15 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 19 is located within the active manufacturing area. Buildings 1 and 5 are located within Area 19. Building 1 is a primary manufacturing building, and Building 5 houses administrative offices. People using this area would include LCAAP site employees working in Building 1 or one of the other buildings and employees responsible for maintaining the area or utilizing the adjacent areas. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. In addition, Area 19 is partially located within the inner fence that surrounds many of the manufacturing and disposal areas, further restricting access to this area. Current land use of Area 19 is

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classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 20 is located within the active manufacturing area. Building 2 is the main manufacturing building in this Area. The buildings in Area 20 are used daily by Installation employees. People using this area would include LCAAP site employees working in one of the several buildings and employees responsible for maintaining the area or utilizing the adjacent areas. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 20 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 21 is located within the active manufacturing area. Building 3 is the main manufacturing building in this Area. Many of the buildings in Area 21 are currently used on a regular basis. People using this area would include LCAAP site employees working in Building 3 or one of the other buildings, and employees responsible for maintaining the area or utilizing the adjacent areas. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. In addition, Area 21 is located within the inner fence, which surrounds the currently active manufacturing area, making it difficult for unauthorized visitors or trespassers to access. Current land use of Area 21 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 22 is located north of the active manufacturing area, along the northern boundary of the Installation. Area 22 is not currently used for any purpose and is maintained as an open field. A fence currently surrounds the facility, and the perimeter of the Installation is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 22 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA. Properties located to the north of Area 22 outside the perimeter fence are predominantly residential in nature.

Area 23 is located within the active manufacturing area. Area 23 buildings are currently used as storage facilities for propellant used in the manufacturing process. People using this area would include LCAAP site employees accessing the 19-series buildings that house bulk propellant used throughout the manufacturing area and employees responsible for maintaining the area or utilizing the adjacent areas. A fence currently surrounds LCAAP, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 23 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 24 is located within the active manufacturing area. Area 24 includes several abandoned structures that were associated with sewage treatment processes. Area 24 is currently unused, and all buildings have been abandoned. A fence currently surrounds the LCAAP facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 24 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 25 is located on the western boundary of the Installation in the thickly wooded area on the edge of the western uplands. This Area also includes a ravine. Area 25 is currently unused, and no inhabitable buildings are present. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 25 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 26 is located in the western uplands, on the southern boundary of the Installation. Area 26 is currently unused, and no inhabitable buildings are present. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 26 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 28 is located in the southeastern comer of the Installation in the thickly wooded area of the uplands within the firing range area. Area 28 was not used during any production processes at LCAAP; rather, a historical release occurred in an underground petroleum pipeline. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 28 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 29 is located west of the active manufacturing area, on the western boundary of the Installation. Area 29 is currently not used for any purpose and is maintained as an open field. A fence currently surrounds the facility, and the perimeter of the Installation is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 29 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA. Properties located to the west of Area 29 outside the perimeter fence are predominantly residential and agricultural in nature.

Area 30 is located north of the active manufacturing area, adjacent to the northern fence line where the Union Pacific Railroad borders the facility boundary. Area 30 consists of an open field, is currently unused, and no inhabitable buildings are present. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 30 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 31 is located in the uplands along the northern border of LCAAP east of the NECOU and was used for the disposal of assorted debris. Area 31 is currently unused, and no inhabitable buildings are present. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 31 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 32 is located in the central and slightly eastern portion of the Installation in the thickly wooded area of the uplands within the 2,195-meter firing range. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 32 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

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Area 33 is located within the active manufacturing area. This area contains a series of small buildings with blast berms. The buildings in Area 33 are no longer active, and they are not used daily by Installation employees. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. In addition, Area 33 is located within the inner fence, which surrounds the currently active manufacturing area, making it difficult for unauthorized visitors or trespassers to access. Current land use of Area 33 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 34 includes Ditches A and B, which were constructed during the development of the Installation for the purpose of conveying stormwater off site. While the ditches are not used for specific Installation processes, they do carry stormwater runoff from interior areas of the Installation to off-site streams. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. Current land use of Area 34 is classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the HHRA.

Area 00 is located within the active manufacturing area. Many of the buildings in Area 00 are currently used on a regular basis. People using this area would include LCAAP site employees working in Building 35 or one of the other complexes and employees responsible for maintaining the area or utilizing the adjacent areas. A fence currently surrounds the facility, and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances, and public access is restricted. In addition, Area 00 is located within the inner fence, which surrounds the currently active manufacturing area, making it difficult for unauthorized visitors or trespassers to access.

A Record of Decision addressing Operable Unit 1 (OU1) for the Lake City Army Ammunition Plant Site was completed in March 2008.

Operable Unit 2:

Area 18 OU is located in the north central portion of LCAAP along the Installation boundary. Adjacent land use includes a mix of residential, agricultural, and industrial uses. The land surface is relatively flat across the OU.

There are no buildings or structures in Area 18 except for the Area 18 ground water treatment plan. The treatment plant was completed in 1996 and is currently operating. Ann extraction well (EW-1) was also constructed in 1996 to contain groundwater contamination EW-1 is located just north of the waste areas described below. A water supply well, 17-FF, is located directly west of Area 18. It was one of 14 wells used to supply process and drinking water to the installation. Well 17-FF is currently connected to the ground water treatment plant and with well EW-1 serves to contain the volatile organic compound (VOC)-contaminated ground water in the Area 18 OU.

A review of aerial photographs and historical records showed that waste disposal activities occurred in the Area 18 OU for 20 years or more, between the early 1950s and the mid-1970s. The following wastes were disposed of at several areas within the Area 18 OU:

-Industrial Wastewater Treatment Plant (IWTP) Waste
-Oil and Grease
-Solvents
-Plant Trash
-Demolition Waste

These disposal areas were covered with soil in the early 1980s. A Remedial Investigation (RI) was performed at the Area 18 OU in 1993 to locate, define, and investigate potential disposal areas. Data collected during the RI indicated that soil and ground water in this area contained contaminants consistent with the types of wastes disposed of onsite.

Six Areas of Concern (AOCs) were identified during the Area 18 RI. During the RI, soil and ground water samples were collected from each AOC and analyzed at a laboratory to determine the chemicals present. The AOCs were then categorized based on the types of contaminants present in the soil and ground water in each area. They are defined as follows:

-AOC 1 Solid Waste Management Unit (SWMU), encompassing a relict lagoon identified as 57-L1-69, contaminated with VOCs.
-AOC 2 SWMU, encompassing approximately 5 relict lagoons, contaminated with VOCs.
- AOC 3 SWMU, encompassing a relict lagoon identified as 69-L6-75, contaminated with VOCs.
- AOC 4 Western area of surface soil (the upper 2 feet of the soil profile) containing lead (at concentrations greater than 1,000 parts per million [ppm]).
- AOC 5 Eastern area of surface soil containing lead (at concentrations greater than 1,000 ppm).
- AOC 6 Area containing concentrations of copper, mercury, and zinc determined to present a human health risk through ingestion of beef from cattle that grazed at Area 18. AOC 6 encompasses all the other five AOCs.

LCAAP was proposed for listing on EPA's National Priorities List in October 1984 with final listing in July 1987, effective August 1987. The site is jointly regulated by the EPA and the Missouri Department of Natural Resources (MDNR). The Army, EPA, and MDNR signed a Federal Facility Agreement that became effective November 28, 1989, which defines the procedural framework under which LCAAP sites will be investigated and remediated, and the roles and responsibilities of the Army, EPA and the State of Missouri regarding CERCLA response activities at the site.

The remedial action for Area 18 will address ground water contamination at Area 18 using groundwater wells to extract and a treatment system to treat affected ground water. The groundwater extraction system will also prevent offsite migration of affected groundwater until treatment is completed. The selected remedial action also uses treatment to address source area soils (disposal pits) to reduce their potential to provide a source of chemicals to the groundwater metals in the surface soil will be addressed by excavation, containment, and/or institutional controls.

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A Record of Decision addressing Operable Unit 2 of the Lake City Army Ammunition Plant was completed in April 1999.

Operations at the Area 18 OU have been discontinued, with the exception of the operation and maintenance of the existing groundwater treatment facility. The Area 18 OU consists largely of grass-covered fields. There are four structures located within the Area 18 OU, including the building that houses extraction well 17-R north of Ditch B; Building 163, which houses a groundwater treatment system; and two warehouses (Buildings 121 F and 121 G) located in the western portion of the Area 18 OU that are used for storage.

Current land uses of the LCAAP facility are classified as industrial for the purpose of identifying potential human receptors and exposure pathways for evaluation in the Human Health Risk Assessment (HHRA). The LCAAP is the only major small arms manufacturing facility for the Department of the Army. Except during the period between 1945 and 1950, when the LCAAP was placed on standby status, it has operated in the same mission. Due to its unique position as a major small arms ammunition manufacturing facility, there is no plan to cease production. Therefore, future use of LCAAP is considered to be industrial/commercial for the purposes of risk assessments. The planning horizon will be reviewed as part of the Five-Year Review process, and should the future use of the property differ from the current/expected use, potential implications will be evaluated at that time.

The people accessing this area are generally limited to the LCAAP employees responsible for maintaining the area and/or utilizing the adjacent areas. As a result of the 1999 ROD, a continuing order to restrict access to the Area 18 OU was prepared by the Commander, documented by a memorandum for the record. The order was signed by the Commander on August 29, 2005. Area 18 OU has been designated as an area where limited hunting is allowed, and the area is proximal to residential areas; therefore, recreational use of this area was conservatively evaluated in the HHRA and the Environmental Risk Assessment (ERA). The onsite residential areas are located at the southwest corner of the Installation, approximately 9,000 feet from Area 18 OU. Hunting is allowed in certain areas of the uplands, located on the southern and eastern portions of the Installation, and partially included within the boundaries of Area 18 OU.

The village of Lake City does not have a centralized municipal water supply system, but village residents do have access to a public water supply system. Some residents and nearby farms receive their water from the alluvial aquifer. Some of these private wells are included in the Army's groundwater sampling and monitoring program to verify that contaminants are not migrating off the Installation and nearby residents are not being negatively impacted.

Groundwater is the principal source of water supply for LCAAP. The Lake City Aquifer serves as the principal aquifer of the Lake City area and is used extensively by LCAAP for all of its industrial and drinking water needs. There are 12 production wells screened in the lower portion of the Lake City Aquifer beneath LCAAP. The production wells at LCAAP currently provide approximately 1.7 million gallons per day (gpd) of water on average. Production wells 17AA (Area 20) and 17CC (Area 12) produce approximately 50 percent of the facility's potable water supply, with the remaining production wells supplying the rest. Many of the production wells have air strippers associated with them, and treatment of the groundwater occurs prior to delivery to the water supply system. In addition to the twelve production wells identified above, three extraction wells (17R, 17S, and 17FF) are pumped and the water from these three extraction wells is treated as part of a groundwater containment system within the Area 18 OU. These three wells extract an additional 571,000 gpd, which is discharged to the treated water to the Little Blue Valley Sewer District (LBVSD).

Currently, there are no production wells screened in the silt and clay water-bearing unit or the bedrock aquifer. There are no known restrictions on the use of water from any of these units, and these units are classified as potential sources of drinking water unless otherwise demonstrated as not being viable sources; however, groundwater occurring in the clay water-bearing and bedrock units is considered a negligible component of the overall hydrologic budget at Lake City.

A ROD addressing OU2 was completed in September 2007.

OU3:
The Proposed Plan for the LCAAP - Northeast Corner Operable Unit (NECOU) was submitted to the public on October 16, 2006. This document was made available to the public in both the Administrative Record File at the LCAAP and in the site Information Repository. A public comment period was held from October 16 to November 14, 2006. In addition, a public meeting was held on November 1, 2006 where representatives from the U.S. Army, USEPA, and MDNR were available to answer questions and accept comments regarding the remedial actions under consideration. The public was given the opportunity to make comments on the proposed remedial actions at the NECOU.

The Installation is bordered on most sides by woodlands or agricultural land. Future use of the surrounding property is not expected to change. The planning horizon will be reviewed as part of the Five-Year Review process, and should proposed future use of the surrounding property differ significantly from the current/expected use (i.e., due to zoning changes), potential implications will be evaluated at that time. The site itself was originally used as farmland. A small lake is used for fishing, and limited hunting by facility personnel for deer and turkey is permitted during hunting season. Two small residential communities, Lake City (population approximately 25) and Buckner (population approximately 3,040), are located near the LCAAP. Lake City, comprised of approximately 10 occupied dwellings, lies immediately adjacent to the center of the northern Installation boundary. Buckner is a rural farming community located approximately 3 miles northeast of the Installation.

Lake City does not have a centralized municipal water supply system, but residents do have access to a public water supply system. Some residents and nearby farms receive their water from the alluvial aquifer. These private wells are included in the Army's groundwater sampling and monitoring program to verify that contaminants are not migrating off-site and that residents are not being negatively impacted.

A security fence currently surrounds the Installation and the perimeter is regularly patrolled. Access by authorized personnel is limited to guarded entrances. Public access is restricted to the Installation. Access to a majority of the NECOU is restricted due to being within the firing fan of the range used to test ammunition at the Installation. People currently using the NECOU area include LCAAP employees responsible for security, maintaining the area, or utilizing the adjacent areas. The access restrictions to the NECOU due to being in the firing fan of the range were not

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include LCAAP employees responsible for security, maintaining the area, or utilizing the adjacent areas. The access restrictions to the NECOU due to being in the firing fan of the range were not used as an assumption in the risk assessment or in developing the remedial alternatives for the NECOU.

In a portion of Area 17 west of Buckner Road, a reserve medical unit leases space for storage and field exercises. A portion of Area 17 East of Buckner Road is occasionally used for a pistol range by installation security forces. Three storage bunkers are the only permanent structures located at the NECOU.

The bunkers are located in the southwest corner of Area 16. There are overhead power lines paralleling Buckner Road, running from Buckner Road to the storage bunkers, and from Buckner Road to Area 11. There is also an underground phone/communication line adjacent to the south side of Buckner Road.

The Area 17A Current Sanitary Landfill is located south of the Area 17 disposal pits. The leachate collection pipe empties into a concrete leachate collection storage sump. Leachate collection lines and two leachate collection sumps were installed at the Area 16A Abandoned Landfill in 2005. The sumps in both Areas are periodically emptied by facility personnel.

Current land uses of the LCAAP facility are classified as industrial for the purpose of identifying plausible human receptors and exposure pathways for evaluation in the Human Health Risk Assessment (HHRA). The LCAAP is the only major small arms manufacturing facility for the Department of the Army. Due to its unique position as a major small arms ammunition manufacturing facility, there is no plan to cease production. The LCAAP has operated in the same mission except during the period between 1945 and 1950, when the LCAAP was placed on standby status. Future use of LCAAP is considered to be industrial for the purposes of risk assessments. There is no reasonable probability that the facility will ever be used for anything other than industrial purposes (i.e., residential purposes). The NECOU is an area where limited hunting by facility personnel is allowed and it is proximal to both residential and hunting areas, so recreational use of this area was conservatively evaluated in the HHRA.

There are 15 water supply and remediation groundwater extraction wells screened in the lower portion of the Lake City Aquifer beneath the LCAAP. Twelve of these wells were used during 2003 to supply water to the facility, supplying nearly 750,000 gallons of water per day (gpd). Data compiled in 2003 show that production wells 17-AA and 17-CC produce approximately 50 percent of the facility's potable water supply, with the remaining production wells supplying the remainder. Historically, these twelve wells have provided as much as 1.2 million gpd of water. Three additional wells (17-R, 17-FF, and 17-S) are pumped and treated in Building 163 prior to discharge as pan of a groundwater containment system within Area 18 OU. These three wells extract approximately 580,000 gpd.

A ROD addressing OU3 was completed in September 2007.

OU4:

The U.S. Army is responsible for the remediation of Area 10 under the regulatory oversight of federal and State authorities, as described below:

- USEPA has primary responsibility for regulatory oversight of the Area 10 remediation. However, due to the past presence of licensed radioactive material, the Nuclear Regulatory Commission (NRC) has responsibility for oversight of any activities relating to license decommissioning. In 2001, the NRC officially deferred its oversight authority for Area 10 to the USEPA in an interagency Policy Issue Memorandum. The intent was to facilitate the remediation of both chemical and radiological contaminants without imposing dual regulation. As specified in the memorandum, USEPA assumed oversight responsibility for the remediation of Area 10 as part of its overall regulatory oversight authority at LCAAP under the FFA. The NRC retained responsibility for reviewing USEPA's determination as to whether Area 10 had been successfully remediated for DU, and for ensuring that the remediation complied with NRC decommissioning requirements and the criteria for unrestricted release as specified in the Army's Nuclear Materials License.

- As signatory to the FFA, the MDNR is also responsible for regulatory review and oversight for remedial and/or removal actions related to Area 10.

Subsequent to the signing of the FFA, numerous investigations were conducted at Area 10 to characterize the site and evaluate possible remediation techniques. In addition, a partial source removal was conducted in 1998/1999. Analytical data collected during these events indicated that lead and DU were the only CERCLA contaminants present in Area 10 at concentrations requiring remediation.

Installation- Wide Remedial Investigation (1988-1992):

Characterization data were collected at Area 10 as part of the initial installation-wide remedial investigation (RI) conducted by EA Engineering, Science, and Technology, Inc. (EA). The data are reported in the Draft Final Installation Wide Operable Unit Remedial Investigation Report. During this characterization effort, sand pile material and surface soil samples were collected to assess the general impacts of surface water runoff on surface soils. Groundwater samples were collected and analyzed for volatile organic compounds (VOCs), base neutral and acid extractable compounds, explosive compounds, and metals. Surface water and pond sediment samples were collected from the pond south of the Area 10 Sand Piles.

Characterization Support for Decommissioning Activities (1994):

Allied Technology Group, Inc. (ATG) conducted a radiological and chemical investigation of Area 10 in 1994 to prepare for NRC decommissioning activities at the Site.

Soil Washing Treatability Study (1996):
In 1996, COGNIS, Inc. (COGNIS) conducted a treatability study to evaluate soil washing with acid leaching as a potential remediation technology for the firing range sand, which was being considered as an alternative to land disposal. The feed material for this study consisted of a 5-gallon bucket of sand from the 600-Yard Bullet Catcher, which was similar in origin and contained

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the same types of contaminants as the Area 10 sand piles.

Partial Source Removal (1998-1999):

Based on the results of investigations conducted from 1990 through 1996, DU was identified as the primary contaminant of interest in Area 10. Thus, the Army conducted radiological characterization and limited source removal activities at Area 10 as a license decommissioning effort under the NRC's oversight. The removal effort, which was conducted from September 1998 through April 1999, focused on the remediation of licensed DU in the sand pile material, in accordance with the Area 10 Decommissioning Plan. Approximately 30,000 cubic feet (cf) of sand pile material were removed, scanned for radioactivity, and prepared for off-site disposal at an appropriate facility based on the measured radioactivity of the waste. The removal was designed to address the most contaminated portions of the sand piles, as defined by the results of the 1996 radiological characterization effort.

Waste Characterization (1999):

In November 1999, IT Corporation (IT) collected and analyzed surface and subsurface samples from numerous locations throughout the sand piles to provide additional waste characterization data. Results of this effort are presented in the Area 10 Sampling and Characterization Report.

Investigation of Additional contaminants of potential concern (COPCs) and Impacted Media (2004):

In April 2004, Cabrera Services, Inc. conducted additional sampling and analysis to complete the characterization of Area 10 by investigating COPCs other than lead and DU that may have impacted the sand piles and surrounding media.

Field Treatability Study (2005):

In February 2005, CABRERA conducted a field treatability study to generate design-level data for a full-scale removal action. The objectives of this study were to generate an inventory of UXO and munitions scrap (both radioactive and non-radioactive) and develop operating parameters for the full-scale treatment design for stabilization of lead.

Supplemental Groundwater Sampling (2007):

In April 2007, an additional round of groundwater sampling and analysis was conducted to improve the general understanding of existing groundwater conditions at the site and provide additional information for risk assessment purposes. Results from this investigation are reported in the Technical Memorandum: Groundwater Sampling and Analysis Report for Area 10. The unfiltered groundwater samples collected during this investigation were analyzed for total TAL metals (plus uranium) and isotopic uranium (by alpha spectroscopy).

Non-Time Critical Removal Action for the Area 10 Sand Piles (2008):

To satisfy the NRC decommissioning requirements, as well as the environmental cleanup requirements imposed by USEPA and MDNR, the Army performed a non-time-critical removal action for Area 10 under CERCLA that addressed both radioactive and non radioactive constituents. The Area 10 Sand Piles Engineering Evaluation/Cost Analysis documented the selection of an appropriate technical approach to address the impacted sand pile material, as well as the underlying and adjacent soils. The Revised Final Area 10 Sand Piles Action Memorandum was issued to document Agency approval of the non-time critical removal action. Since no contamination had been observed in the groundwater, surface water, or submerged pond sediments in Area 10, these media were excluded from the scope of the removal action.

The current land use of Area 10 is industrial. LCAAP is enclosed by perimeter fencing and patrolled by armed security personnel. Access to the installation is restricted to military personnel, government employees and contractors, and authorized visitors. Access to the firing range and sand piles is further restricted by additional fencing, and is limited to hours during which the range is not in operation.

The Army has no plans to cease firing operations at the range, or to modify its land use to anything other than industrial. Therefore, the only anticipated future land use is industrial.

Based upon geologic and hydrogeologic information gathered during the remedial investigation for the site-wide operable unit , neither the unconsolidated silt and clay layer nor the bedrock formation in the upland areas appears capable of yielding sufficient groundwater to be used for a domestic water supply. Thus, as presented in the EE/CA risk assessment, the groundwater underlying Area 10 is not a likely source of drinking water for current or future inhabitants. Current land use controls in place for the LCAAP facility ensure that no well drilling may take place without written authorization by the Army.

Groundwater has been sampled on several occasions between 1998 and 2007 in the vicinity of Area 10, and no lead or uranium concentrations that exceeded the EPA's Preliminary Remediation Goals (screening levels) were observed. This information is summarized in the Final Area 10 Sand Piles Removed Action Completion Report. Completion of the removal action has remediated a potential source of future contamination to groundwater with respect to the sand pile material.
Much of the surface water runoff within Area 10 drains to a small pond located south of the sand piles, or into a ditch located southwest of Area 10. This ditch eventually discharges into Firing Range Creek. Surface water in the vicinity of Area 10 is not used for consumption.

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A ROD addressing OU 04 of the LCAAP Site was signed in December 2009.

EPA ID SITE ID	SITE NAME STREET 1 STREET 2 CITY COUNTY NAME	STATE COUNTY (FIPS) CODE	ZIP CODE	LATITUDE LONGITUDE SOURCE	SMSA HYDRO UNIT	OU	ACTION CODE, NAME	SEQ	ACTUAL START DATE	ACTUAL COMPLETE DATE	CURRENT ACTION LEAD

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						00	DS	DISCVRY	001		07/01/1984	EPA Fund
						00	PA	PA	001		03/27/1980	Fed Fac
						00	PA	PA	002	12/01/1987	03/11/1988	Fed Fac
						00	SI	SI	001	12/01/1987	12/19/1989	Fed Fac
						00	HR	HAZRANK	001		04/13/1984	EPA Fund
						00	NP	PROPOSED	001		10/15/1984	EPA Fund
						00	NF	NPL FINL	001		07/22/1987	EPA Fund
						00	AS	AIR SRVY	001	06/13/1984	06/01/1985	EPA Fund
						00	AS	AIR SRVY	002	09/15/1991	01/15/1992	EPA Fund
						00	MA	ST COOP	001	10/01/1988	09/28/1989	PRP Rsp Fed
						00	HA	HEALTH	001	02/01/1999	08/06/2001	EPA Fund
						00	ED	R/H ASMT	001	01/12/2005	04/11/2006	Fed Fac
						01	EE	EE/CA	003	07/20/2004	03/17/2005	Fed Fac
						01	EE	EE/CA	004	08/06/2004	12/11/2005	Fed Fac
						01	LV	FF RV	002	05/13/2005	08/15/2005	Fed Fac
						01	LV	FF RV	003	05/19/2005	08/15/2005	Fed Fac
						01	LV	FF RV	004	05/06/2005	08/15/2005	Fed Fac
						01	LV	FF RV	005	04/08/2005	08/15/2005	Fed Fac
						01	LV	FF RV	006	04/08/2005	08/15/2005	Fed Fac
						01	LV	FF RV	007	02/08/2006	03/12/2007	Fed Fac
						01	LW	FF RI/FS	001	08/01/1987	07/10/1990	Fed Fac
						01	LW	FF RI/FS	003	08/03/1990	03/12/2008	Fed Fac
						01	LW	FF RI/FS	005	09/30/1992	03/12/2008	Fed Fac
						01	ED	R/H ASMT	002	06/01/2005	09/30/2006	Fed Fac
						01	AR	ADMM REC	001	12/27/1989		Fed Fac
						01	AR	ADMM REC	004	07/01/1992		Fed Fac
						01	RO	ROD	004		03/12/2008	Fed Fac
						01	LX	FF RD	004	05/21/2004	01/04/2008	Fed Fac
						01	LY	FF RA	005	05/15/2007	06/01/2008	Fed Fac
						02	EE	EE/CA	001	04/01/1994	10/27/1995	Fed Fac
						02	LV	FF RV	001	04/17/1996	03/20/1997	Fed Fac
						02	LW	FF RI/FS	004	04/21/1992	04/22/1999	Fed Fac
						02	LW	FF RI/FS	006	08/31/2005	09/26/2007	Fed Fac
						02	ED	R/H ASMT	003	02/01/2006	05/30/2006	Fed Fac
						02	AR	ADMM REC	003	07/01/1992		Fed Fac
						02	RO	ROD	002		04/22/1999	Fed Fac
						02	RO	ROD	009		09/26/2007	Fed Fac
						02	LX	FF RD	002	05/04/2001	09/26/2001	Fed Fac
						02	LX	FF RD	005	05/21/2004	01/02/2008	Fed Fac
						02	LY	FF RA	001	10/05/2007	03/20/2008	Fed Fac
						03	EE	EE/CA	002	04/01/1994	11/01/1996	Fed Fac

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MO3213890012	LAKE CITY ARMY AMMUNITION PLANT (NORTHWEST LAGOON) - CONTINUED					03	EE	EE/CA	005		01/01/1997	Fed Fac
						03	LV	FF RV	008	03/01/2005	06/25/2005	Fed Fac
						03	LW	FF RI/FS	002	06/27/1990	09/29/1998	Fed Fac
						03	NI	FF FS	001	11/23/2004	09/27/2007	Fed Fac
						03	AR	ADMM REC	002	06/27/1990		Fed Fac
						03	RO	ROD	001		09/29/1998	Fed Fac
						03	RO	ROD	006		09/27/2007	Fed Fac
						03	LX	FF RD	001	01/01/1999	10/01/1999	Fed Fac
						03	LX	FF RD	006	05/21/2004	02/26/2008	Fed Fac
						03	LY	FF RA	002	07/31/2000	11/01/2001	Fed Fac
						03	LY	FF RA	007	05/15/2007	09/01/2008	Fed Fac
						04	EE	EE/CA	006	07/05/2005	07/18/2008	Fed Fac
						04	LV	FF RV	013	05/27/2008	12/31/2008	Fed Fac
						04	RO	ROD	010		12/28/2009	Fed Fac
						05	EE	EE/CA	008	11/29/2011		Fed Fac
MO4210090052	LAKE CITY AAP - 65 W CENTRAL PORTION			39D05M36S	3760		CONGRESSIONAL DISTRICT: 04					
0701766	65 W CENTRAL PORTION HWY 7 & 78			094D25M06S	10300101		OWNERSHIP: Federally Owned					
							NPL STATUS: A					
	INDEPENDENCE	MO	64050				FEDERAL FACILITY: Y					
	JACKSON	29095					NON-NPL STATUS: N/A					

Site Aliases: USARMY LAKE CITY AAP (FINDS),,,MO,;

Site Description: COMBINED WITH LAKE CITY ARMY AMMUNITION PLANT (MO3213890012).COMBINED WITH LAKE CITY ARMY AMMUNITION PLANT (MO3213890012).

.

						00	DS	DISCVRY	001		06/09/1987	EPA Fund
MO4213820489	LAKE CITY AAP - HWY 7 & 78			39D06M14S	3760		CONGRESSIONAL DISTRICT: 04					
0701767	JCT OF MO HWY 7 & HWY 78			094D16M51S	10300101		OWNERSHIP: Federally Owned					
							NPL STATUS: A					
	INDEPENDENCE	MO	64050				FEDERAL FACILITY: Y					
	JACKSON	29095					NON-NPL STATUS: N/A					

Site Aliases: LAKE CITY ARMY AMMO PLT AKA OLIN (FINDS),,,MO,;REMINGTON ARMS CO INC-LAKE CITY PLANT,,,MO,;

Site Description: FILE HAS BEEN MERGED INTO (MO3213890012) LAKE CITY ARMY AMMO PLANT.FILE HAS BEEN MERGED INTO (MO3213890012) LAKE CITY ARMY AMMO PLANT.

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						00	DS	DISCVRY	001		10/01/1979	EPA Fund

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MO4213820489	LAKE CITY AAP - HWY 7 & 78 - CONTINUED					00	PA	PA	001	03/01/1980	03/01/1980	EPA Fund
						00	SI	SI	001	03/01/1980	03/01/1980	EPA Fund
MON000703355	INDEPENDENCE (EX) SATELLITE POW CAMP			+39.091389			CONGRESSIONAL DISTRICT: 05					
0703355	SEC. 34 & 35, T 51 N, R 30 W			-094.415000			OWNERSHIP: Formerly Federally Owned or Operated					
							NPL STATUS: N					
	INDEPENDENCE	MO	64050				FEDERAL FACILITY: N					
	JACKSON	29095					NON-NPL STATUS: NFRAP-Site does not qualify for the NPL based on existing					
	Site Aliases: ADAMS FARM,,,,;INDEPENDENCE SATELLITE POW CAMP,,INDEPENDENCE,MO,;											
	Site Description: FUDS - USACE property # B07MO0006 .											
						00	DS	DISCVRY	001		03/31/2010	EPA Fund
						00	PA	PA	001	10/17/2011	05/16/2012	EPA Fund
						00	RX	FF PA	001	09/28/2011	10/14/2011	EPA In-House
MON000706411	MERCURY-NETTLETON			+38.098809			CONGRESSIONAL DISTRICT: 05					
0706411	121 NETTLETON AVENUE			-094.416364			OWNERSHIP: Private					
							NPL STATUS: N					
	INDEPENDENCE	MO	64050				FEDERAL FACILITY: N					
	JACKSON	29095					NON-NPL STATUS: Removal Only Site (No Site Assessment Work Needed)					
	Site Aliases: MERCURY-NETTLETON AVE,121 NETTLETON AVE,INDEPENDENCE,MO,64050;											
	Site Description: Mercury spill onto soil in residential yard .											
						00	PJ	RP EM REM	001	03/06/2012	03/12/2012	PRP Rsp Fed

TOTAL NUMBER OF SITES IN REPORT: 7