

Summary of Scheduled Activities at LHAAP NPL Sites and Completed RODs
(Updated February 9, 2012)

Table 1
Scheduled Activities at LHAAP NPL Sites¹

Site ID	Rank²	Site Name	Scheduled Activities	Recent Activities/Comments
LHAAP-001	3	Inert Burning Ground		RA completed and ROD/DD issued January 1998
LHAAP-003	Not yet ranked	Building 722 - Paint Shop	Issue Final EE/CA February 2012, Issue ROD/DD June 2012	Designated as NPL site sometime after October 2010.
LHAAP-004	2	Former Pilot Waste Water Treatment Plant	Issue Final FS February 2012, Issue ROD/DD June 2012	
LHAAP-011	3	Suspected TNT Burial Site at P&Q Avenues		RA completed and ROD/DD issued January 1998
LHAAP-012	1	Active Landfill	Issue Final RAO reports for years 1 – 4 February 2012, RA/Closure 2040	ROD/DD issued July 2006
LHAAP-013	3	Suspected TNT Burial Site Between Active and Old Landfills		ROD/DD issued February 1996
LHAAP-014	3	Area 54W Burial Site		ROD/DD issued February 1996

¹ Most of the information in this table is from US Army, 2011a. It was updated using information from Shaw Environmental, Inc., 2012a.

² Site rank is based on environmental risk. See explanation at end of table.

Table 1
Scheduled Activities at LHAAP NPL Sites (continued)

Site ID	Rank	Description	Scheduled Activities	Recent Activities/Comments
LHAAP-016	1	Old Landfill	Issue ROD/DD September 2011	CLI comments submitted to Army November 2010
LHAAP-017	1	No 2 Flashing Area Burning Ground	Issue ROD/DD September 2011	CLI comments submitted to Army July 2010
LHAAP-018	1	Burning Ground / Rocket Motor Washout Pond	Begin RI/FS August 2011, Issue ROD/DD June 2012	
LHAAP-024	1	Former Unlined Evaporation Pond	Begin RI/FS August 2011, Issue ROD/DD June 2012	
LHAAP-029	1	Former TNT Production Area	Issue ROD/DD November 2011	CLI comments submitted to Army April 2011
LHAAP-032	2	Former TNT Waste Disposal Plant		RA completed and ROD/DD issued August 2008
LHAAP-037 (35B)	2	Quality Assurance Lab Building 29-A	Issue RD August 2011, Complete RA October 2011	ROD/DD issued June 2010, CLI comments submitted to Army April 2010
LHAAP-046	2	Plant 2/ Pyrotechnic Operation	Issue RD August 2011, Complete RA November 2011	ROD/DD issued September 2010, CLI comments submitted to Army February 2010
LHAAP-047	1	Plant 3/Hand Signal Assembly	Begin RI/FS August 2011, Issue ROD/DD June 2012	
LHAAP-049	2	Former Acid Plant		RA completed and ROD/DD issued September 2010

Table 1
Scheduled Activities at LHAAP NPL Sites (concluded)

Site ID	Rank	Description	Scheduled Activities	Recent Activities/Comments
LHAAP-050	2	Former Waste Disposal Facility	Issue RD August 2011	ROD/DD issued September 2010, CLI comments submitted to Army February 2010
LHAAP-054 (LHAAP-003-R-01)	2	Ground Signal Test Area		RA completed and ROD/DD issued January 1998
LHAAP-058 (35A)	1	Maintenance Complex	Issue RD August 2011, Complete RA November 2011	ROD/DD issued September 2010, CLI comments submitted to Army February 2010
LHAAP-067	2	Above Ground Storage Tank	Issue RD August 2011, Complete RA October 2011	ROD/DD issued June 2010, CLI comments submitted to Army April 2010
Pistol Range	3		Complete RA September 2015	ROD/DD issued September 2010
LHAAP-001-R-01 (LHAAP-027)	2	South Test/ Bomb Test Area (MMRP)	Issue ROD/DD September 2011	CLI comments submitted to Army July 2011
LHAAP-003-R-01 (LHAAP-054)	2	Ground Signal Test Area (MMRP)	Issue ROD/DD September 2011	CLI comments submitted to Army July 2011

CLI = Caddo Lake Institute

EE/CA = Engineering Evaluation/Cost Analysis

MMRP = Military Munitions Response Program

RA = Remedial Action

RAO = Remedial Action Operation

RI/FS = Remedial Investigation/Feasibility Study

RD = Remedial Design

ROD/DD = Record of Decision, Decision Document

Site Ranking

Site rank is based on environmental risk.

- Rank 1: Sites that present the highest threat to the environment due to the extent or concentration of contaminants. These sites may have active sources of contaminants.
- Rank 2: Sites that present a moderate threat to the environment. Compared to Rank 1 sites, contaminants are not as widespread or their concentrations are not as high.
- Rank 3: Sites that present a low threat or no threat or to the environment. Contaminants at these sites are confined to relatively small areas and are present in low concentrations.

The rankings are based on a brief review of Army documents. Rankings may change after more thorough reviews are performed.

Table 2
RODs/DDs Issued at LHAAP NPL Sites³

Site Rank	Number of sites with rank	Number RODs/DDs issued
1	7 ⁴	2
2	11	7
3	5	5
Unranked (site 003)	1	0

³ Most of the information in this table is from US Army, 2010a. The acronyms are defined in the glossary, Appendix 2.

⁴ Sites 18 and 24 are considered to be a single site.

Table 3
Remedial Actions Selected in RODs

Site	Date of ROD⁵	Remedial Action Selected
LHAAP-001 Inert Burning Ground	January 1998	No further action ⁶
LHAAP-011 Suspected TNT Burial Site	January 1998	No further action ⁷
LHAAP-012 Active Landfill	April 2006 ⁸	MNA and LUCs ⁹ (RD issued June 2007) ¹⁰
LHAAP-013 Suspected TNT Burial Site	February 1996	No further action ¹¹
LHAAP-014 Area 54W Burial Site	February 1996	No further action ¹²
LHAAP-027 (LHAAP-001-R-01) South Test/ Bomb Test Area	January 1998 Non-MMRP	No further action ¹³
LHAAP-037 (35B) Quality Assurance Laboratory Building 29-A	June 2010	MNA and LUCs ¹⁴
LHAAP-046 Plant 2/Pyrotechnic Operation	September 2010	MNA (evaluate after two years), LUCs ¹⁵
LHAAP-032 Former TNT Waste Disposal Plant	August 2008	No action ¹⁶
LHAAP-049 Former Acid Plant	September 2010	No action ¹⁷
LHAAP-050 Former Waste Disposal Facility	September 2010	Excavate soil, MNA (evaluate after two years), LUCs ¹⁸

⁵ U.S. Army, 2011a.

⁶ U.S. Army, 1998a, Bates number 022218 (page in ROD unnumbered).

⁷ U.S. Army, 1998a, Bates number 022218 (page in ROD unnumbered).

⁸ ROD date given in U.S. Army, 2011a is July 2006. This may appear to be a typo.

⁹ Shaw Environmental, Inc., 2006a, page 1-2.

¹⁰ Shaw Environmental, Inc., 2007a. ROD date given in U.S. Army, 2011a is July 2006. This may appear to be a typo.

¹¹ TNRCC, 1995a.

¹² TNRCC, 1995a.

¹³ U.S. Army, 1998a, Bates number 022218 (page in ROD unnumbered).

¹⁴ Shaw Environmental, Inc., 2010e, page 1-2.

¹⁵ Shaw Environmental, Inc., 2010c, page 1-2.

¹⁶ Shaw Environmental, Inc., 2008a, page 1-1.

¹⁷ Shaw Environmental, Inc., 2010a, page 1-1.

¹⁸ Shaw Environmental, Inc., 2010d, page 1-2.

Table 3
Remedial Actions Selected in RODs (concluded)

Site	Date of ROD	Remedial Action Selected
LHAAP-054 (LHAAP-003-R-01) Ground Signal Test Area	January 1998 Non-MMRP	No further action ¹⁹
58 (35A) Maintenance Complex	September 2010	Bioremediation, MNA (evaluate western plume after two years), LUCs ²⁰
LHAAP-067 Above Ground Storage Tank	June 2010	MNA and LUCs ²¹
Pistol Range	September 2010	No further action ²²

MNA = Monitored Natural Attenuation
LUCs = Land Use Controls

References

Shaw Environmental, Inc., 2006a, *Final Record of Decision, Landfill 12 (LHAAP-12), Longhorn Army Ammunition Plant, Karnack, Texas*, April 2006.

Shaw Environmental, Inc., 2007a, *Final Remedial Design Addendum, Landfill 12 (LHAAP-12), Longhorn Army Ammunition Plant, Karnack, Texas*, June 2007.

Shaw Environmental, Inc., 2008a, *Final Record of Decision, LHAAP-32, Former TNT Waste Disposal Plant, Longhorn Army Ammunition Plant, Karnack, Texas*, August 2008.

Shaw Environmental, Inc., 2010a, *Final Record of Decision, LHAAP-49, Former Acid Storage Area, Longhorn Army Ammunition Plant, Karnack, Texas*, August 2010.

Shaw Environmental, Inc., 2010b, *Final Record of Decision, LHAAP-35A(58), Group 4, Longhorn Army Ammunition Plant, Karnack, Texas*, September 2010.

Shaw Environmental, Inc., 2010c, *Final Record of Decision, LHAAP-46, Plant 2 Area, Group 4, Longhorn Army Ammunition Plant, Karnack, Texas*, September 2010.

Shaw Environmental, Inc., 2010d, *Final Record of Decision, LHAAP-50, Former Sump Water Tank, Group 4, Longhorn Army Ammunition Plant, Karnack, Texas*, September 2010.

¹⁹ U.S. Army, 1998a, Bates number 022218 (page in ROD unnumbered). Note, referred to as Site XX in the ROD.

²⁰ Shaw Environmental, Inc., 2010b, page 1-2.

²¹ Shaw Environmental, Inc., 2010e, page 1-2.

²² Shaw Environmental, Inc., 2010f, page 1-1.

Shaw Environmental, Inc., 2010e, *Final Record of Decision, LHAAP-35B(37), Chemical Laboratory and LHAAP-67, Aboveground Storage Tank Farm, Longhorn Army Ammunition Plant, Karnack, Texas*, June 2010.

Shaw Environmental, Inc., 2010f, *Final Record of Decision, Former Pistol Range, Longhorn Army Ammunition Plant, Karnack, Texas*, August 2010.

Shaw Environmental, Inc., 2012a, *Status of Sites and Technical Documents, Longhorn Army Ammunition Plant - PSC Contract*, January 19, 2012.

Texas Natural Resources Conservation Commission (TNRCC), 1995a, letter to U.S. EPA: *Re. Longhorn Army Ammunition Plant (LHAAP) Record of Decision (ROD) for No Further Action at LHAAP Sites 13 and 14*, October 30, 1995.

U.S. Army, 1998a, *Record of Decision for No Further Action at Group 1 Sites, Longhorn Army Ammunition Plant, Karnack, Texas*, January 1998.

U.S. Army, 2011a, letter from Rose M. Zeiler, Ph.D. Longhorn AAP Site Manager to Mr. Carlos Sanchez US Environmental Protection Agency, *Update for FY11 LHAAP Site List Schedule, Longhorn Army Ammunition Plant (LHAAP), Karnack, Texas, 5 July 2010*. Note, the 2010 date in the subject line appears to be a typo. The letter is dated July 28, 2011.