

FINAL

DECISION DOCUMENT

**GRENADE RANGE AREA MUNITIONS RESPONSE SITE
CAMP MAXEY FORMERLY USED DEFENSE SITE (FUDS)
LAMAR COUNTY, TEXAS**

FUDS Project No. K06TX030510

Prepared for:

U.S. Army Engineering and Support Center, Huntsville



Geographic District:

U.S. Army Corps of Engineers, Fort Worth District

September 2017

EXECUTIVE SUMMARY

This Decision Document is being presented by the United States Army Corps of Engineers (USACE) to describe the Department of Army (Army) selected remedy for the Grenade Range Area Munitions Response Site (MRS) at the Camp Maxey Formerly Used Defense Site (FUDS) in Lamar County, Texas. The remedies described in this Decision Document were selected in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S. Code § 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act of 1986, and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan, 40 Code of Federal Regulations Part 300 as amended.

The Defense Environmental Restoration Program (DERP) was established by Congress in 1986 and directed the Secretary of Defense to “...carry out a program of environmental restoration at facilities under the jurisdiction of the Secretary.” DERP provides for the cleanup of Department of Defense (DoD) sites. DoD established a Military Munitions Response Program (MMRP) element under DERP in 2001 to address certain locations known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM) or munitions constituents (MC). USACE is the program manager for DERP FUDS. USACE is the lead agency for investigating, reporting, making remedial decisions, and taking remedial actions at the MRSs identified at Camp Maxey, while the Texas Commission on Environmental Quality (TCEQ) is the lead regulatory agency.

Based on the results of the Remedial Investigation (RI), the Camp Maxey FUDS property was delineated into 13 MRSs. The RI based these delineations on the potential presence of MEC, differences in land ownership, and current and reasonably anticipated future land use. The 13 MRSs at Camp Maxey are listed below in Table ES-1 and identified in Figure 2.

Table ES- 1

| Munitions Response Site (MRS) | Acreage |
|-----------------------------------|---------|
| Western Range Area A | 1,310 |
| Western Range Area B | 2,166 |
| Western Range Area C | 1,104 |
| Western Range Area D | 1,870 |
| Western Range Area E | 203 |
| Eastern Range Area A | 1,124 |
| Eastern Range Area B | 540 |
| Eastern Range Area C | 563 |
| Grenade Range Area | 97 |
| Cave Training Area | 7 |
| Mine and Booby Trap Training Area | 35 |
| Bivouac Area | 1,125 |
| Pat Mayse Lake | 4,283 |

In addition to the 12 land-based MRS listed in Table ES-1, approximately 4,283 acres of the Pat Mayse Lake are within the Eastern Range Area and Western Range Area. The 4,283 acres of water within the Pat Mayse Lake were not investigated as part of the RI completed in 2014.

This Decision Document addresses the Grenade Range Area MRS only. The Grenade Range Area MRS consists of approximately 97 non-contiguous acres of land near the southern shore of Pat Mayse Lake and west of the Eastern Range Area C MRS in the Eastern Range Area of the former Camp Maxey. This MRS is southwest of the East Range Area range fans and is associated with three separate hand grenade ranges. MEC contamination has been confirmed on the ground surface and in the shallow subsurface in the Grenade Range Area MRS.

A Remedial Investigation (RI) completed for Camp Maxey in 2014 concluded that potential MEC hazards are present for the future residents at privately owned properties, commercial/industrial workers, site visitors, and/or recreational users. Therefore, the RI for Camp Maxey recommended a Feasibility Study (FS) be conducted to evaluate a range of possible remedial alternatives. The FS for Camp Maxey, and the related Proposed Plan for select Camp Maxey MRSs, were completed in 2014 and resulted in the lead agency recommending a remedy for the Grenade Range Area MRS that incorporates a focused MEC surface clearance and land use controls (LUCs) in the form of signage, public education, and long-term management (LTM). The signage would only be implemented on public property within the MRS. The total estimated cost for the recommended remedy at the Grenade Range Area MRS is \$540,000. Following stakeholder and public review of these recommendations and the Proposed Plan for Camp Maxey, the lead agency has determined that the recommended remedy is appropriate for this MRS.

Based on information currently available, the selected remedy (a focused MEC surface clearance and a combination of signage, and public education) is protective of human health, safety, and the environment; and satisfies the statutory requirements of CERCLA §121(b) with regards to the former use of this MRS by the Army and DoD.

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ATTACHMENTS

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| Attachment 1: Announcement of Public Notice | |
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ACRONYMS AND ABBREVIATIONS

| | |
|--------|--|
| AP | Armor Piercing |
| ARAR | Applicable or relevant and appropriate requirement |
| bgs | below ground surface |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act |
| COC | Chemical of Concern |
| CSM | Conceptual Site Model |
| DERP | Defense Environmental Restoration Program |
| DGM | Digital geophysical mapping |
| DoD | Department of Defense |
| ESD | Explanation of Significant Difference |
| FS | Feasibility Study |
| FUDS | Formerly Used Defense Site |
| GPS | Global Positioning System |
| HA | Hazard Assessment |
| LUC | Land Use Control |
| LTM | Long-Term Management |
| MC | Munitions Constituents |
| MD | Munitions Debris |
| MEC | Munitions and Explosives of Concern |
| MMRP | Military Munitions Response Program |
| MRS | Munitions Response Site |
| NCP | National Oil and Hazardous Substances Pollution Contingency Plan |
| NPV | Net Present Value |
| RAO | Remedial Action Objective |
| RI | Remedial Investigation |
| ROE | Right-of-Entry |
| TCEQ | Texas Commission on Environmental Quality |
| TPP | Technical Project Planning |
| TPWD | Texas Parks and Wildlife Department |
| U.S. | United States |
| USACE | United States Army Corps of Engineers |
| USEPA | United States Environmental Protection Agency |
| UXO | Unexploded Ordnance |
| WMA | Wildlife Management Area |

PART 1 – DECLARATION

1 SITE NAME AND LOCATION

Grenade Range Area Munitions Response Site (MRS), Camp Maxey Formerly Used Defense Site (FUDS), Lamar County, Texas (Figure 1).

2 STATEMENT OF BASIS AND PURPOSE

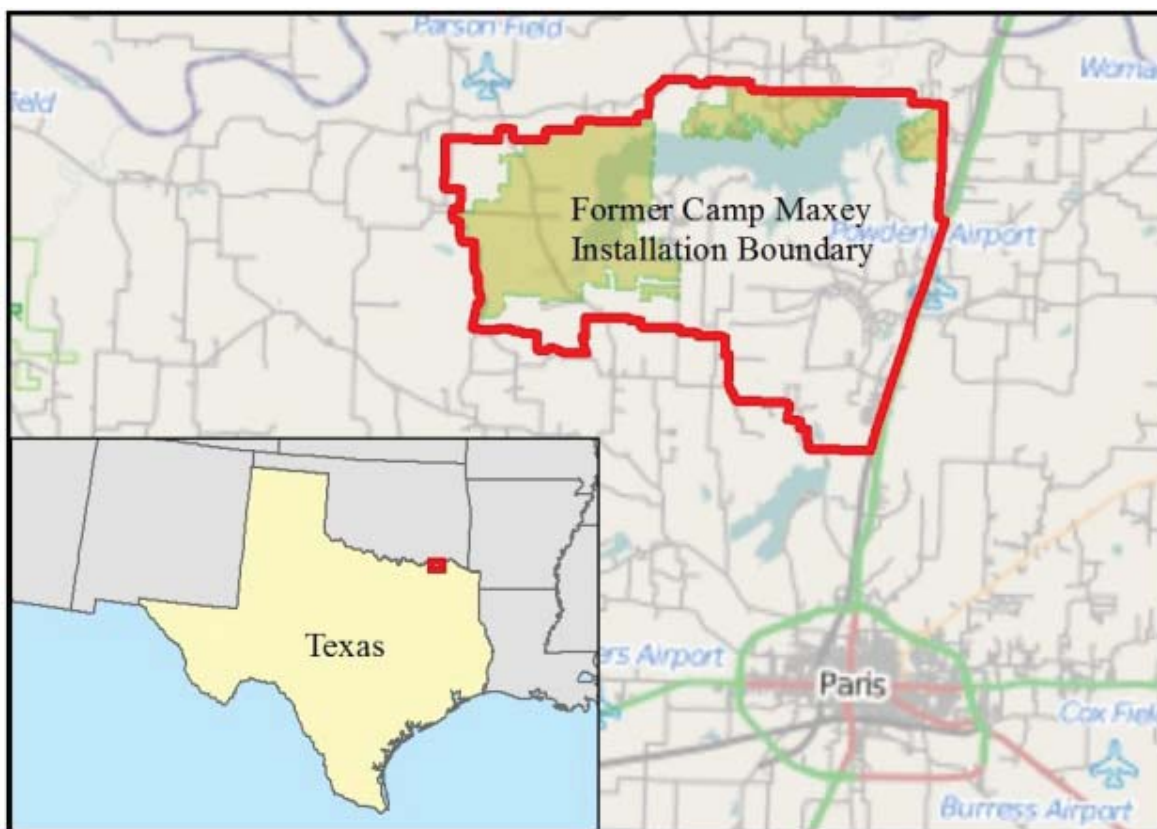
This Decision Document is being presented by the United States Army Corps of Engineers (USACE) to describe the Department of Army selected remedies for the Grenade Range Area MRS at the Camp Maxey FUDS in Lamar County, Texas (Figure 2). The Defense Environmental Restoration Program (DERP) was established by Congress in 1986 and directed the Secretary of Defense to “...carry out a program of environmental restoration at facilities under the jurisdiction of the Secretary.” DERP provides for the cleanup of Department of Defense (DoD) sites. A Military Munitions Response Program (MMRP) element was established under DERP in 2001 to address non-operational range lands known or suspected to contain munitions and explosives of concern (MEC) or munitions constituents (MC) contamination. The USACE is the program manager for the DERP FUDS. USACE is the lead agency for investigating, reporting, making remedial decisions, and taking remedial actions at the MRSs identified at Camp Maxey, while the Texas Commission on Environmental Quality (TCEQ) is the lead regulatory agency

The site addressed by this Decision Document is the Grenade Range Area MRS, which consists of approximately 97 non-contiguous acres of land near the southern shore of Pat Mayse Lake and west of the Eastern Range Area C MRS in the Eastern Range Area of the former Camp Maxey. This MRS is southwest of the East Range Area range fans and is associated with three separate hand grenade ranges. MEC contamination has been confirmed on the ground surface and in the shallow subsurface. The Remedial Investigation (RI) completed for Camp Maxey recommended that a Feasibility Study (FS) be conducted to evaluate possible remedial alternatives to address MEC contamination that was identified. The *Final RI/FS Report* (EOTI, 2014) for Camp Maxey was completed in April 2014.

This Decision Document is part the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), also known as Superfund, and follows the requirements from *Engineer Regulation 200-3-1; FUDS Program Policy* (USACE, 2004); *MMRP Interim Guidance Document 06-04* (USACE, 2006); and the United States Environmental Protection Agency (USEPA) guidance provided in *A Guide to Preparing Superfund Proposed Plans, Records of Decision, and Other Remedy Selection Decision Documents*, USEPA 540-R-98-031 (USEPA, 1999). Because this Decision Document follows the precise format specified in the USEPA guidance, some sections are included that might not apply to this site and the associated selected remedies. In these cases text is included explaining why the information required in the guidance is not relevant and/or not applicable to Camp Maxey.

The remedy described in this Decision Document was selected in accordance with CERCLA, 42 U.S. Code § 9601 et seq., as amended by the Superfund Amendments and Reauthorization Act of 1986, and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 Code of Federal Regulations Part 300 as amended.

Figure 1: Camp Maxey Location



3 ASSESSMENT OF SITE

MEC has been reported to have been found in the Grenade Range Area MRS on the ground surface and in the shallow subsurface. During the RI fieldwork in 2013, one 2.36-inch rocket was found on the ground surface. Additionally, one 37mm armor-piercing high explosive (APHE) projectile was found two inches below the ground surface [bgs] in 1998 during an ordnance investigation (Parsons, 2000). None of the investigations or removals completed prior to the RI encompassed the entire MRS footprint and while details concerning the location, depth, and types of the munitions found are available, the full boundary and geographical footprint of the removal actions are unknown. Forty-six MD items were found in the 14 grids investigated within the Grenade Range Area MRS during the RI. The MD found during the RI were identified as being associated with 60mm mortars, 2.36-inch rockets, MK2 grenades, and small arms. All MD found within the Grenade Range Area MRS was within 12 inches of the ground surface with 91 percent of the MD being found within six inches. Based on historical information and 2013 fieldwork, the RI confirmed the presence of unexploded ordnance (UXO) on the ground surface and indicates the potential presence of UXO in the subsurface at the Grenade Range Area MRS; therefore, the site poses a threat to public health, welfare, or the environment. MC sampling indicated that there are no unacceptable risks to human health or the environment due to exposure to MC at this MRS.

Figure 2: Camp Maxey Munitions Response Sites

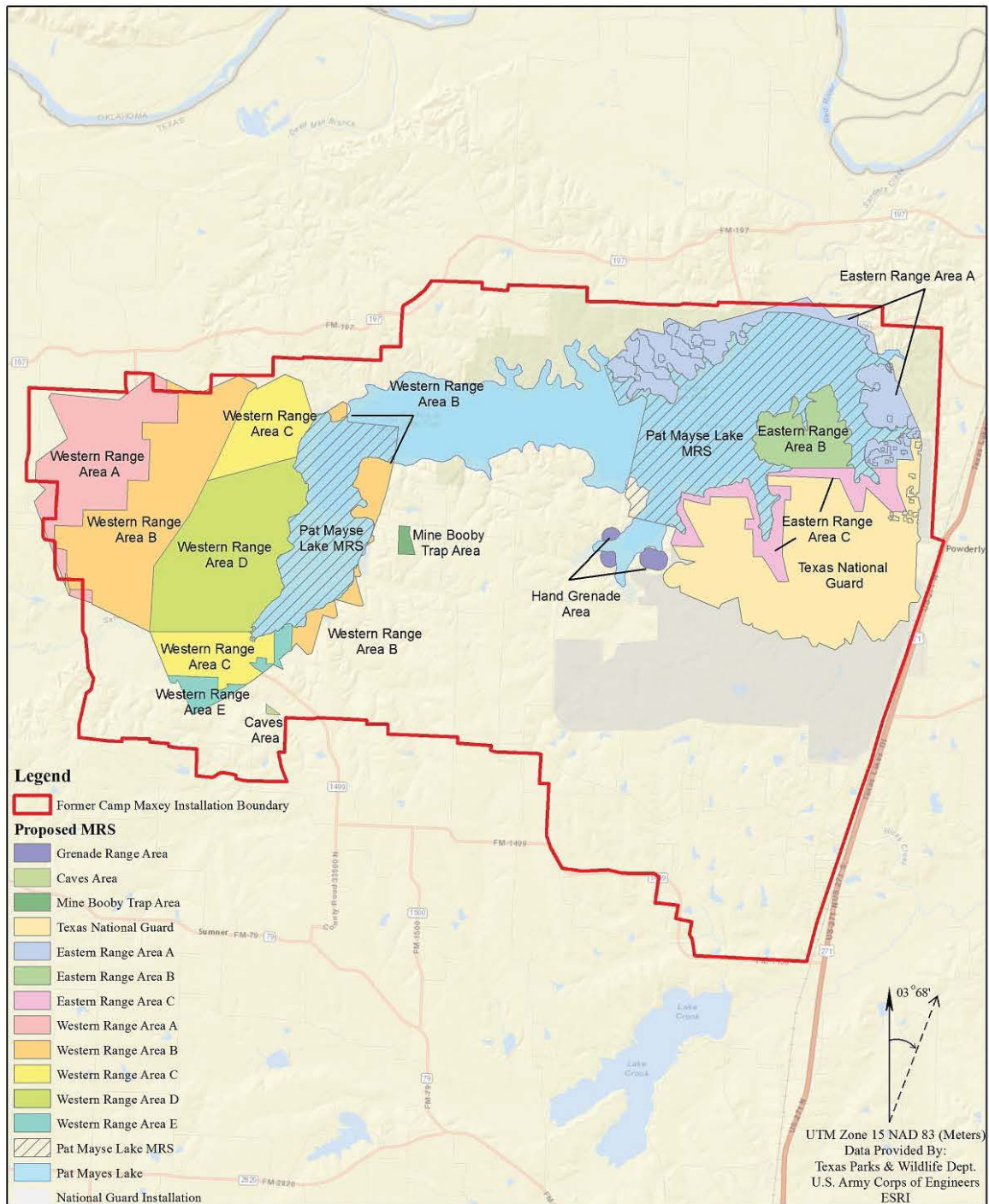
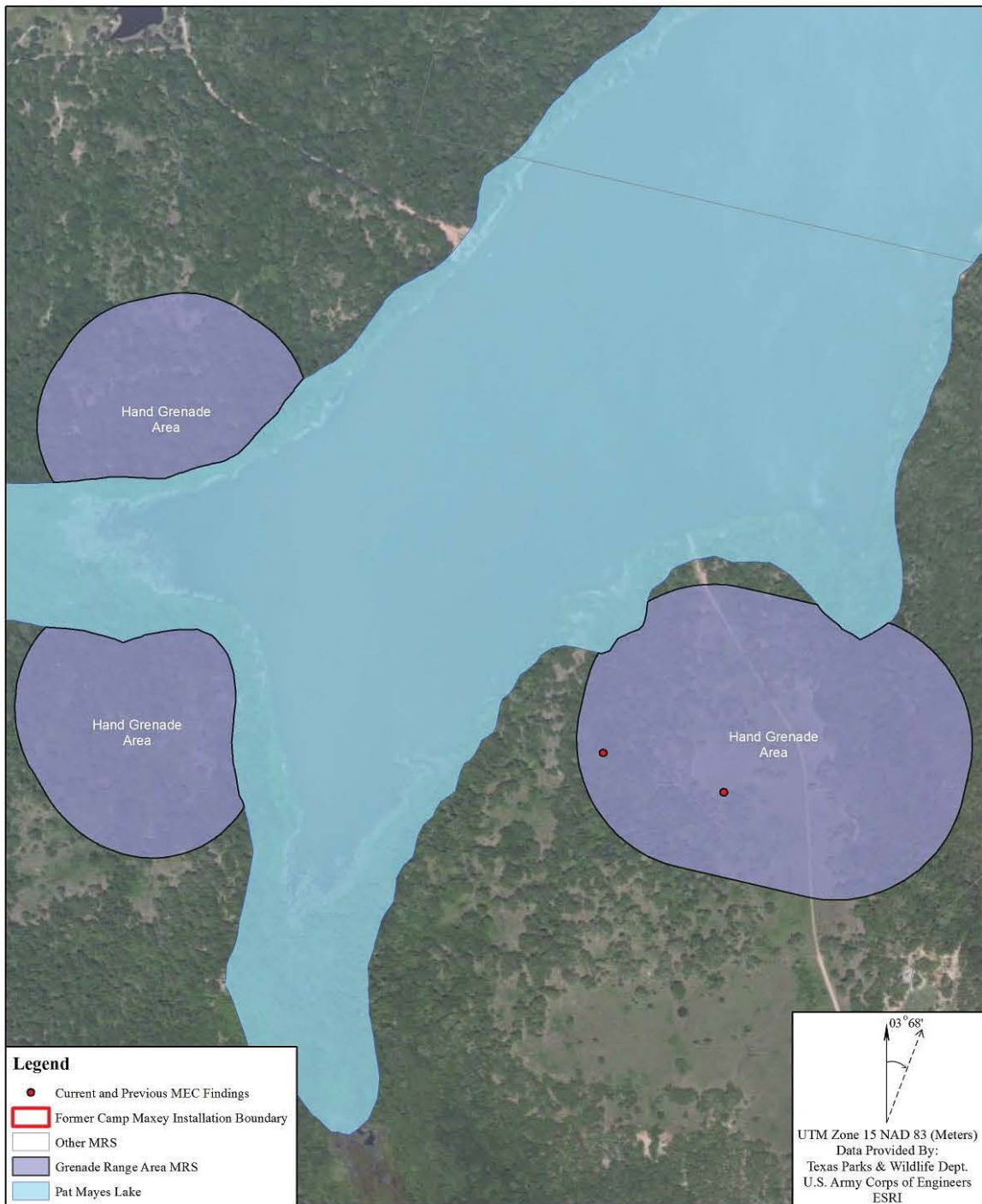


Figure 3: Grenade Range Area MRS



4 DESCRIPTION OF SELECTED REMEDIES

USACE recommends a combination of a focused MEC surface clearance and land use controls (LUCs) (signage, 3Rs public education, and long-term management [LTM]). The specific components of the selected remedy are:

- Focused surface clearance, including a 30-foot buffer zone, in areas frequented by the public for recreational activities (i.e., dirt roads and shorelines)
- Signage on and surrounding the MRS on public property warning potential receptors of the potential explosive safety hazards;
- 3Rs (Recognize, Retreat, Report) Safety Program including public education, periodic public meetings, fact sheets, and letters to landowners;
- Establishment of a LTM program that includes monitoring of signs and addresses the potential for MEC to become exposed due to natural forces such as erosion along shorelines;

This selected remedy effectively reduces the MEC hazards present at the Grenade Range Area MRS by reducing the source material (focused MEC clearance) on the ground surface in frequented public use areas (e.g., trails, dirt roads, and shorelines), thereby minimizing the direct contact threat associated with MEC. The remedy also raises public awareness of potential MEC hazards present at the Grenade Range Area MRS and minimizes the potential for future exposure by ensuring permanent notice of actual and/or potential hazards, thereby reducing the risk of receptors encountering MEC throughout the site.

5 STATUTORY DETERMINATIONS

Based on the information currently available, the selected remedy for the Grenade Range Area MRS is protective of human health, safety, and the environment and satisfies the statutory requirements of CERCLA §121(b) with regards to the former use of the MRS by the DoD. The selected remedy is cost-effective and utilizes permanent solutions and alternative technologies to the maximum extent practicable. The selected remedy does not meet the statutory preference for treatment; however, this is considered acceptable because no source materials constituting a principal threat waste are present at the site. Substantive portions of the Resource Conservation and Recovery Act (RCRA) Disposal Requirements (40 CFR 264, Subpart X) may apply as an applicable or relevant and appropriate requirement (ARAR) if, as part of a surface or subsurface clearance, munitions are consolidated for treatment, storage, or disposal.

Because this remedy will not allow for unlimited use and unrestricted exposure at the MRS, a statutory review will be conducted no less often than five years after initiation of remedial action to ensure that the remedy continues to be protective of human health, safety, and the environment and minimizes explosive safety hazards.

6 DATA CERTIFICATION CHECKLIST

The following information is included or otherwise addressed in this Decision Document.

- A summary of the characterization of MEC hazards at the Grenade Range Area MRS.

- Current and reasonably anticipated future land use assumptions for the site.
- Key factors that led to the selection of a combination of a focused surface clearance and LUCs as the remedy for the Grenade Range Area MRS.
- Estimated costs related to the selected remedy.
- How source materials constituting principal threats will be addressed.

Information on chemicals of concern (COCs) and their respective concentrations, associate baseline risk, and established cleanup levels is not included because the baseline risk assessment conducted during the RI indicated there are no unacceptable risks to human health or the environment due to potential exposure to MC at the Grenade Range Area MRS (EOTI, 2014).

7 AUTHORIZING SIGNATURE

This Decision Document presents the selected response action at the Grenade Range Area MRS, Camp Maxey, Lamar County, Texas. The USACE is the lead agency under the DERP at the Camp Maxey FUDS, and has developed this Decision Document consistent with the CERCLA, as amended, and the NCP. This Decision Document will be incorporated into the larger Administrative Record file for Camp Maxey, which is available for public view at Paris Public Library, 326 S. Main Street, Paris, Texas 75460. This document, presenting a selected remedy with a present worth cost estimate of \$540,000, is approved by the undersigned, pursuant to Memorandum, CEMP-CED (200-1a), July 29, 2016, subject: Redlegation of Assignment of Mission Execution Functions Associated with Department of Defense Lead Agent Responsibilities for the Formerly Used Defense Sites Program, Engineer Regulation 200-3-1, FUDS Program Policy and to the Memorandum, CEMP (1200C PERM February 9, 2017, subject: Interim Guidance Document for the Formerly Used Defense Sites (FUDS) Decision Document (DD) Staffing and Approval.

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PETE G. PEREZ, P.E., SES
Director, Regional Business Directorate

DATE

PART 2 - DECISION SUMMARY

1 SITE NAME, LOCATION, AND BRIEF DESCRIPTION

The site addressed in this Decision Document is the Grenade Range Area MRS at Camp Maxey in Lamar County, Texas. The Federal Facility Identifier (FFID) for Camp Maxey is TX9799F668600. The Camp Maxey Grenade Range Area MRS has been identified by the USACE under the FUDS program as Site Number K06TX030510. USACE is the lead agency for investigating, reporting, making remedial decisions, and taking remedial actions at Camp Maxey. TCEQ is the lead regulatory agency. Funding for implementing the selected remedy at the MRS will be appropriated through DERP.

Camp Maxey is a former military facility located nine miles north of Paris, Texas in Lamar County and approximately three miles south of the Texas-Oklahoma border. United States (U.S.) Highway 271 forms part of the eastern border of Camp Maxey and the former installation is within 105 miles of Dallas and Fort Worth, Texas; and 155 miles of Shreveport, Louisiana.

2 SITE HISTORY AND ENFORCEMENT ACTIVITIES

2.1 Site History

The Camp Maxey FUDS comprises approximately 10,144 acres of land and 4,283 acres of water (14,427 total acres) and was part of a 41,428-acre U.S. Army post in the northeast corner of the state utilized for training infantry during World War II. Camp Maxey was activated as an infantry basic training camp in July, 1942, shortly after the U.S. declared war on Japan in December 1941. In October 1944, the camp was designated an infantry Advance Replacement Training Center. Infantry were trained in live fire of weapons including pistols, carbines, rifles, tommy guns, automatic rifles, machine guns, mortars, bazookas, anti-tank guns, and artillery. The camp was deactivated in October 1945, after World War II had ended, and the camp was declared surplus in May 1947. During 1948 and 1949, certificates of decontamination, which included restrictions on land for any purpose and for surface use only, were issued by the USACE. Land was conveyed to the State of Texas and sold to private owners. Later, some of the land was returned to the ownership of the federal government for construction of a dam on Sanders Creek.

Today, there are three significant groups of property owners within the former Camp Maxey: the federal government, the State of Texas, and private owners. The federal government owns the largest amount of the former camp, including Pat Mayse Lake and the surrounding land. A large portion of the federally-owned property has been leased to the Texas Parks and Wildlife Department (TPWD) for use as a Wildlife Management Area (WMA). Most of the Western Range Area is located within the WMA. The State of Texas owns acreage where the current Camp Maxey Texas National Guard installation is located. Much of the southern portions of the East Range Area are located within this current Texas National Guard installation. The remaining land is privately owned. Privately-owned property is generally used for residential, farming, and ranching purposes, and the majority of privately owned land is in the southern portion of the former camp in areas not used for ordnance training and outside of the FUDS project footprint. The majority of the ranges were located in what is today federally-owned property.

2.2 Investigations Conducted to Date

Between 1965 and 2010, numerous removal actions, historical records reviews, and studies have been completed to remove MEC and identify past activities at former Camp Maxey which potentially resulted in contamination, and where those activities were conducted:

- Archive Search Report (USACE, 1994)
- Final Removal Report, Ordnance and Explosives Time Critical Removal Action (Human Factors Applications, Inc., 1997)
- Final Sampling Report, Ordnance and Explosives Survey and Sampling (UXB International, Inc., 1998)
- Engineering Evaluation/Cost Analysis (Parsons Engineering Science, Inc., 2000)
- Final Removal Report, Ordnance and Explosive Removal Action (UXB International, Inc., 2001)
- Archive Search Report Supplement (USACE, 2004)
- Final Report, Munition Constituents Sampling, Analysis, and Evaluation of Formerly Used Defense Sites (Parsons, 2006)
- Final Site Specific Final Report, Site Management, Ordnance Investigation and Removal (Tetra Tech EC, Inc., 2007)
- Site Specific Final Report, Non-Time Critical Removal Action (USA Environmental, Inc., 2010)

MEC was identified and removed in some areas identified as having the highest potential for interaction with UXO primarily in the Eastern Range Area.

An Archive Search Report Supplement, released in 2004, identified and described 14 MRSs based on previous studies, and summarized the ordnance items recorded or suspected for each MRS. In 2008, based on the anticipated response, the 14 MRSs at Camp Maxey were realigned into a single MRS (Camp Maxey Range Complex).

Although, MEC removal actions had already been completed in specific areas within the former Camp Maxey, USACE conducted an RI/FS between 2013 and 2014. The RI/FS was conducted in accordance with CERCLA to confirm the presence of MEC and/or MC, characterize the nature and extent of contamination, and present an analysis of remediation alternatives (EOTI, 2014). During the RI, the single MRS at Camp Maxey was delineated into 13 MRSs, as shown in Figure 2. Eight MRSs were evaluated during the FS; of which, all eight were recommended to assess possible response actions for MEC. This Decision Document addresses one MRS, the Grenade Range Area MRS. The other seven MRSs fully investigated during the RI/FS are addressed in separate Decision Documents.

2.3 CERCLA Enforcement Actions

To date, there have been no CERCLA-related enforcement activities at the project site.

3 COMMUNITY PARTICIPATION

Community participation in the process leading to this Decision Document falls into three categories: 1) dissemination of information to the community; 2) stakeholder involvement in the technical project planning (TPP) process; and 3) formal public comment period. These three areas are described in more detail below.

3.1 Information Dissemination

The following activities were conducted to disseminate information to the community in the vicinity of Camp Maxey:

- An Administrative Record file was established at Paris Public Library, which currently contains past investigation reports, the *Final RI/FS Report for former Camp Maxey* (EOTI, 2014) , and the *Proposed Plan for former Camp Maxey* (EOTI, 2014b).
- Based on the consensus reached by the project planning team, a Proposed Plan was prepared for public review and comment. A newspaper announcement was published on 17 June 2014 in *The Paris News* to solicit public comment on the Proposed Plan for former Camp Maxey (Attachment 1).
- A public meeting to discuss the Proposed Plan was held at the Holiday Inn Express in Paris, Texas on 24 June 2014.

3.2 Technical Project Planning

The following activities were conducted during the TPP process for Camp Maxey:

- Representatives of USACE and state and federal regulatory authorities were invited to participate in the TPP process for the investigation of Camp Maxey. The initial TPP meeting was held on 12 June 2008 and, during this meeting, the TPP participants (stakeholders) were provided with an overview of the TPP process and the site history. The participants then worked with the USACE contractor to identify concerns related to ordnance activities at Camp Maxey, to agree upon a general approach to further investigation(s), and to reach a consensus on a site closeout statement.
- Further communication with the stakeholders took place during development of the RI/FS work plan. A second TPP meeting was held on 4 September 2008.
- Further communication with the stakeholders took place during development of the RI/FS work plan. A third TPP meeting was held on 4 December 2008.
- A fourth TPP meeting was conducted with the stakeholders on 26 July 2012 to finalize project data quality objectives (DQOs) and the work plan.
- A fifth TPP meeting was conducted on 25 November 2013 to review the results and conclusions of the RI and to discuss the implications of right-of-entry (ROE) refusal in several areas of Camp Maxey and the 13 delineated MRSs.

The details of the TPP meetings are recorded in TPP Memorandums. All TPP Memoranda are available in the Administrative Record at the Paris Public Library as an Appendix to the *Final RI/FS Report* (EOTI, 2014).

3.3 Formal Public Comment Period

The USACE made the *Proposed Plan for former Camp Maxey* (EOTI, 2014b) available for public comment between 17 June 2014 and 17 July 2014. This public comment period was announced through a notice placed in *The Paris News* newspaper (Attachment 1).

4 SCOPE AND ROLE OF OPERABLE UNIT OR RESPONSE ACTION

The contamination to be addressed at Camp Maxey is related to the potential MEC hazards present in and around the former range complexes. Based on the findings of the RI, the Camp Maxey Munitions Response Area (MRA) was delineated (subdivided) into 13 MRSs shown in Figure 2. The delineation was based on the potential presence of MEC, differences in land ownership, and current and reasonably anticipated future land use. Of these 13 MRSs, remedial alternatives were developed and evaluated for eight MRSs. These eight MRS were evaluated in the FS and included in the Proposed Plan. The remaining four MRSs require additional investigation to adequately characterize the nature and extent of MEC potentially at each site. The four MRSSs requiring additional information are Western Range Area A, Western Range Area E, Cave Training Area, and Bivouac Area. Prior to the RI, the Camp Maxey MRA totaled 16,235 acres. Following the MRS delineation resulting from the RI, the combined acreage of all 12 land MRSs is 10,144 acres. Part of the 10,144 acres includes the 1,125-acre Bivouac Area MRS which was identified during the RI and was not included in the original 16,235-acre MRA. Additionally, 4,283 acres of water (Pat Mayse Lake MRS) within the eastern and western range areas were not investigated but are included in the revised 14,427-acre FUDS footprint. The Camp Maxey National Guard Military Reservation encompasses approximately 2,894 acres of the MRA in the Eastern Range Area; however, the reservation is active and therefore not eligible for the FUDS program. This DD only addresses the 97-acre Grenade Range Area MRS.

The overall remedial strategy for the Grenade Range Area MRS reflects USACE's desire to mitigate the potential risks posed from exposure to potential MEC hazards at the sites. Consequently, the Selected Remedy for this MRS is designed to reduce the potential for unacceptable exposures to MEC through a focused surface clearance and the use of LUCs. Following approval of the Selected Remedy for the Grenade Range Area MRS that is determined to be protective of human health and the environment, minimizes explosive safety hazards, and satisfies the statutory requirements of CERCLA §121(b) with regards to the former DoD use of the MRS, the lead agency will develop a remedial design/response action plan that details how the Selected Remedy will be conducted. Following the completion of the remedial design/response action plan, the remedial action will be implemented.

5 PROJECT SITE CHARACTERISTICS

5.1 Site Overview

The Camp Maxey FUDS comprises approximately 10,144 acres of land and 4,283 acres of water (14,427 total acres) and was part of a 41,128-acre U.S. Army post in the northeast corner of the state utilized for training infantry during World War II. Camp Maxey was activated as an infantry basic training camp in July, 1942, shortly after the U.S. declared war on Japan in December 1941. In October 1944, the camp was designated an infantry Advance Replacement Training Center. Infantry were trained in live fire of weapons including pistols, carbines, rifles, tommy guns, automatic rifles, machine guns, mortars, bazookas, anti-tank guns, and artillery. The Grenade Range Area consists of approximately 97 non-contiguous acres of land along and near the southern shore of Pat Mayse Lake southwest of the Eastern Range Area of the former Camp Maxey. This MRS is comprised and associated with three grenade ranges outside of the Eastern Range Area range fans. MEC contamination has been confirmed on the ground surface and in the

shallow subsurface during the RI and previous investigations (Figure 2).

The camp was declared surplus in May 1947 and conveyed to the State of Texas and sold to private landowners. Later, some of the land was returned to the ownership of the federal government for construction of a dam on Sanders Creek. Today, the former camp is divided into federal, state, and privately owned properties. The federal government owns Pat Mayse Lake and the surrounding land used for management of the lake. The State of Texas owns the Camp Maxey Texas National Guard Military Reservation which was within portions of the Camp Maxey MRA but was determined to be ineligible for the FUDS program and was therefore not investigated as part of the RI. The remaining land is privately owned and generally used for residential, farming, and ranching purposes. The Grenade Range Area MRS, which this DD addresses, is completely within USACE property which is owned by the federal government and managed as part of Pat Mayse Lake.

The former Camp Maxey lies within the Gulf Coastal Plain which is generally a gently undulating plain characterized by uplands of low relief and broad river valleys. The majority of the vegetative cover consists of deciduous forest or woodland. The surficial geology of Lamar County reflects outcrops of primarily moderate to very slowly permeable loamy and/or clayey soils. The majority of the former Camp Maxey area lies within the Sanders Creek watershed and drainage basin. The Pat Mayse Dam was built in 1967 on Sanders Creek, a tributary of the Red River, and forms the Pat Mayse Lake which covers large portions of former range fans. The area generally drains to the northeast.

The former Camp Maxey area has a low probability of archeological and historical significance. No known significant Native American activities occurred in the area and military buildings and sites of historic significance from World War II have been lost through deactivation, inattention and redevelopment. In addition, no items of apparent historical or cultural significance were encountered during the RI fieldwork.

Several threatened and endangered species have been identified in Lamar County, Texas; however, the habitat requirements for most of the listed species does not exist at the former Camp Maxey and no protected species have been observed at the former Camp Maxey.

5.2 Investigation of Munitions and Explosives of Concern

The following activities were performed to assess the presence of MEC at Camp Maxey and to define the nature and extent of potential MEC hazards:

- Historical document review: re-evaluation of site documents (e.g., Archive Search Report and Supplement, Removal Action Reports, Engineering Evaluation/Cost Analysis Report etc.) to assess the potential MEC presence at each MRS.
- Digital Geophysical Mapping (DGM) surveys: detection and mapping of subsurface metallic “anomalies” using digital instruments. The precise locations of anomalies detected using DGM were recorded using global positioning system (GPS) units or other methods.
- Intrusive excavation: a representative portion of the subsurface metallic anomalies detected during DGM or analog surveys were selected for excavation to characterize whether or not the anomalies were MEC-related

MEC has been reported to have been found in the Grenade Range Area MRS on the ground surface and

in the shallow subsurface. During the RI fieldwork in 2013, one 2.36-inch rocket was found on the ground surface. Additionally, one 37mm armor-piercing high explosive (APHE) projectile was found two inches below the ground surface [bgs] in 1998 during an ordnance investigation (Parsons, 2000). None of the investigations or removals completed prior to the RI encompassed the entire MRS footprint and while details concerning the location, depth, and types of the munitions found are available, the full boundary and geographical footprint of the removal actions are unknown. Forty-six MD items were found in the 14 grids investigated within the Grenade Range Area MRS during the RI. The MD found during the RI were identified as being associated with 60mm mortars, 2.36-inch rockets, MK2 grenades, and small arms. All MD found within the Grenade Range Area MRS was within 12 inches of the ground surface with 91 percent of the MD being found within six inches. More details of the MEC investigation conducted at Camp Maxey are presented in the *Final RI/FS Report for former Camp Maxey* (EOTI, 2014).

5.3 Investigation of Munitions Constituents

To assess the presence as well as characterize the nature and extent of MC contamination at the Camp Maxey MRA, surface and subsurface soil samples were collected and analyzed at locations where MEC was known or suspected to be present throughout Camp Maxey. In total, forty-four (44) surface soil samples were collected from all the MRSs at the former Camp Maxey where MEC was found during the RI or from RI grids designated as having medium/high munitions debris density. Five of the 44 surface soil samples were collected from within the Grenade Range Area MRS. Following the surface soil sampling and analysis, a total of 120 subsurface soil samples were collected and analyzed for lead from locations where surface soil sample results exceeded established screening levels for lead. Twelve subsurface samples were collected from three grids within the Grenade Range Area. The results of the surface and subsurface soil sample analyses were compared to preliminary screening values, which were developed using Camp Maxey site-specific background soil concentrations and selected applicable human health and ecological screening values. The results of the baseline risk assessment completed as part of the RI demonstrate that adverse health effects from human and ecological exposure to MC in soil at the former Camp Maxey are not expected; therefore, contamination is not expected to be present in other environmental media such as surface water, sediment, air, plants, or animals. Based on these results, no further investigation on the basis of potential human health or ecological risk is warranted and MC contamination will not be discussed further in this section. More detailed information concerning the MC sampling and analysis conducted at the Grenade Range Area MRS are presented in the *Final RI/FS Report for former Camp Maxey* (EOTI, 2014).

5.4 Types of Contamination and Affected Media

Based on the results of the prior historical investigations and the RI, potential MEC hazards in the form of UXO remain at the Grenade Range Area MRS. The presence of MEC has been confirmed on the surface and in the shallow subsurface (2 inches bgs) at the MRS and, coupled with the general level of site accessibility and the existence of complete MEC exposure pathways at the surface and in the subsurface, confirms the potential for MEC hazards at this MRS.

5.5 Location of Contamination

As described above, numerous MEC items have been found within the Grenade Range Area MRS on the

ground surface and in the shallow subsurface (two inches bgs). While there have been limited investigations actions conducted in the Grenade Range Area and the location of MEC finds is known, the boundaries of the 1998 removal action are unknown (Parsons, 2000). The focused surface clearance included in the preferred alternative for the Grenade Range Area MRS is intended to be concentrated in recreational areas.

5.6 Migration and Exposure Routes

As described above, the potential for MEC exposure exists at the Grenade Range Area MRS. For this reason, there is a potential for commercial and industrial workers, site visitors, and recreational users to come into contact with surface or subsurface MEC.

5.7 Potential Receptors Present

The primary receptors at the Grenade Range Area MRS are anticipated to be site workers (e.g., forestry personnel and utility workers, etc.), site visitors, and recreational users (e.g., hunters).

5.8 Potential MEC Exposure Pathways

Potential exposure to MEC contamination in soil could occur via direct contact of receptors to MEC contamination present in surface or subsurface soil. As described above, potential receptors that could interact with these pathways include site workers (e.g., forestry personnel and utility workers) and recreational users. These receptors would most typically be in contact with soil on the ground surface and within the first foot (12 inches) bgs. MEC in soil could also migrate via natural processes (i.e., erosion) to the surface.

5.9 Conceptual Site Model

A conceptual site model (CSM) is a representation of a site and its environment that is used to facilitate understanding of the site and the potential contaminant exposure pathways that might be present. The CSM describes potential contamination sources and their known or suspected locations, human and/or ecological receptors present, and the possible interactions between the two. The CSM summarizes which potential receptor “exposure pathways” for MEC and MC are (or may be) “complete” and/or “potentially complete” and which are (and are likely to remain) “incomplete.” An exposure pathway is considered incomplete unless all of the following elements are present: (a) MEC or MC contamination; (b) a receptor that might be affected by that contamination; and (c) a method for the receptor to be exposed to (i.e., come into contact with) the contamination. If all of these elements are present, an exposure pathway is considered complete. If no MEC or MC has been confirmed at the MRS, the pathway is considered “potentially complete” if 1) significant MD is present indicating the potential for either MEC or MC to exist and 2) both receptors and an exposure method are present.

Following completion of the RI and the evaluations of contamination and potential exposure pathways described above, the initial CSM for the Grenade Range Area MRS was updated to reflect the status of MEC and MC exposure pathways using the results of the investigation. Because the baseline risk assessment completed as part of the RI demonstrate that adverse health effects from human and ecological exposure to MC in soil at the former Camp Maxey are not expected, all MC exposure pathways in the CSM are considered to be incomplete for the Grenade Range Area. Since MEC was observed at the

Grenade Range Area MRS, pathways are considered complete for all receptors. The updated CSM is included as Figures 3 and 4.

6 CURRENT AND POTENTIAL FUTURE LAND USES

The land uses within the former Camp Maxey are predominantly ranching, farming, rural residential, and recreational. The majority of the lands within the MRSs at Camp Maxey are used for parks, wildlife management, and flood control for Pat Mayse Lake. At the Grenade Range Area MRS, the MRS acreage is part of undeveloped USACE property managed as part of Pat Mayse Lake. The MRS is open to hunters during seasonal hunting seasons. Based on discussions with landowners and stakeholders, these current land uses are projected to remain the same for the foreseeable future. The land uses identified at Camp Maxey are discussed in detail in the *Final RI/FS Report for the former Camp Maxey* (EOTI, 2014).

Figure 4: Exposure Pathway Analysis for MEC – Grenade Range Area

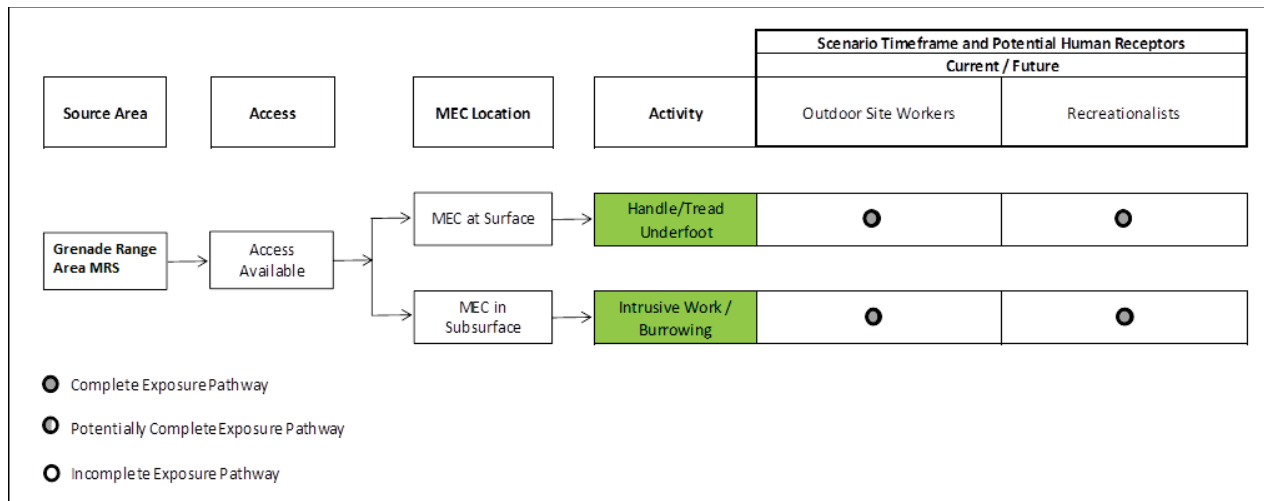
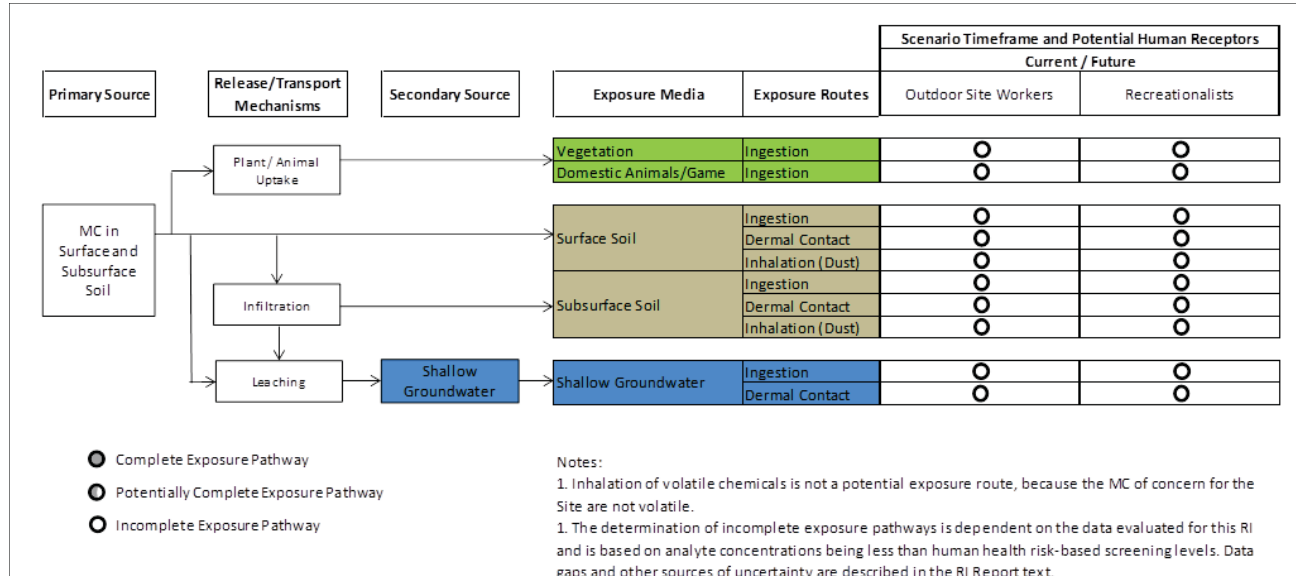


Figure 5: Exposure Pathway Analysis for MC – Grenade Range Area



7 SUMMARY OF PROJECT SITE RISKS

7.1 Human Health Risks

Potential receptors of MEC hazards present at the Grenade Range Area MRS are anticipated to be commercial/industrial workers (e.g., forestry personnel, utility workers, etc.), site visitors, and recreational users (e.g., hunters). Based on the findings at Camp Maxey, MEC hazard assessments (HAs) were performed to qualitatively characterize the potential MEC hazards at select MRSs. The MEC HA method generates a score and a corresponding “Hazard Level” ranging from 1 (highest) to 4 (lowest) that provides a qualitative indication of the MEC hazard in each area (these are not quantitative measures of explosive hazard). Based on the information available from the RI and other previous investigations, the MEC HA “Hazard Level” for the Grenade Range Area MRS is 1. Additionally, a qualitative risk evaluation was completed during the RI. This evaluation considered all elements of risk and concluded there is a moderate risk related to MEC at the Grenade Range Area MRS (EOTI, 2014).

As discussed previously, no MC contamination was detected in the soil at the former Camp Maxey, and therefore the Grenade Range Area MRS, during the RI (EOTI, 2014). Based on these results, combined with all the RI surface and subsurface soil sampling completed at the former Camp Maxey, the MC risk assessment conducted as part of the RI concluded that there was no unacceptable human health risk posed by exposure to MC at the Grenade Range Area MRS.

7.2 Ecological Risks

Ecological receptors are not considered in the evaluation of MEC hazards. As discussed previously, no MC contamination was detected in the soil at the Grenade Range Area MRS during the RI (EOTI, 2014). Based on these results, the MC risk assessment conducted as part of the RI concluded that there was no unacceptable ecological risk posed by exposure to MC at the Grenade Range Area MRS.

7.3 Basis for Response Action

The basis for taking the response action at the Grenade Range Area MRS is the risk associated with the potential MEC hazard. The response action selected in this DD is necessary to protect public health and welfare from potential MEC on the surface of the Grenade Range Area MRS.

8 REMEDIAL ACTION OBJECTIVES

The general Remedial Action Objective (RAO) at Camp Maxey is to limit exposure to potential hazards/risks for site workers, residents, recreational users, site visitors, and ecological receptors resulting from exposure to MEC and MC at the site. However, no unacceptable risk posed by exposure to MC hazards was identified at the former Camp Maxey, so no RAOs are required for MC at the MRS. The specific RAO for the Grenade Range Area MRS is to minimize direct contact with MEC during recreational activities (i.e., hunting, equestrian, fishing, hiking, wildlife viewing, and lake boating access) on the ground surface.

9 DESCRIPTION OF ALTERNATIVES

A range of general response actions were identified, evaluated, and screened to develop a list of possible remedial alternatives for the Camp Maxey MRSs. These general response actions were (a) no action, (b) LUCs (e.g., public education, signage, etc.), and (c) surface and subsurface MEC removals. Various technology options for these general response actions were evaluated based on screening criteria that included effectiveness, implementability, and cost. Methods deemed to be viable were combined into possible remedial alternatives for the Grenade Range Area MRS. A No Action alternative was also evaluated. The No Action alternative refers to a remedy where no active remediation or enforceable LUCs are implemented. Under CERCLA, evaluation of a No Action alternative is required to provide a baseline for comparison of other remedial technologies and alternatives. A detailed description of the alternative development process is provided in the FS for former Camp Maxey for eight of the 13 MRSs at Camp Maxey (EOTI, 2014). Rights-of-entry could not be obtained for the remaining four MRSs on land; therefore, investigations will be completed and remedial alternatives developed and evaluated at a later date. The water within the Eastern Range Area and the Western Range Area complexes (Pat Mayse Lake MRS) was not included as part of the RI and was also not investigated. Five remedial alternatives were developed during the FS for the Grenade Range Area MRS.

9.1 Remedy Components

The major components of each alternative are described below:

9.1.1 *Alternative 1: No Action*

The No Action alternative (also referred to as No Further Action under CERCLA) has no major components because it means that a remedy will not be implemented to reduce the potential safety risk posed by MEC interaction with human receptors.

9.1.2 *Alternative 2: Land Use Controls*

Alternative 2 employs the use of LUCs to reduce and prevent explosive hazard exposure to potential human and ecological receptors. LUCs for MEC generally include physical and/or administrative/legal mechanisms that minimize the potential for exposure by increasing awareness and limiting land use. This process does not prevent exposure to MEC in all cases; however, it can effectively prevent exposure by increasing awareness and/or restricting access to areas where MEC may potentially be present. The LUCs for Alternative 2 include the following:

- **Signage:** Signage on and surrounding the MRS on **public property** warning potential receptors of the potential explosive safety hazards and instructing them in the appropriate response in the event potential MEC is encountered (i.e., 3Rs of Explosives Safety “Recognize, Retreat, and Report”)
- **Public Education:** Public education would consist of periodic 3Rs educational awareness meetings, fact sheets, and letters to landowners. A 3Rs program would focus on providing information on the areas containing the MEC hazards and the appropriate response if MEC is encountered. These preventive measures would include periodic 3Rs educational public meetings and fact sheets that have the goal of modifying behavior to reduce the risk of

exposure and reduce the impact if exposure occurs. Fact sheets and educational materials can be distributed through the community as posted notices or handouts. In addition, letters and fact sheets would be sent to landowners and residents on parcels in areas identified as having MEC hazards as a result of the RI, and a Community Relations Plan (CRP) would be updated every five years.

- **LTM Program:** Establishment of a LTM program that includes monitoring of signs and addresses the potential for MEC to become exposed due to natural forces such as erosion along shorelines.

9.1.3 Alternative 3: Land Use Controls; Focused Surface Clearance

Alternative 3 employs the use of LUCs and a focused surface clearance in frequented public use areas ((e.g., trails, dirt roads, shorelines) to reduce the source of the hazard and prevent explosive hazard exposure to potential human and ecological receptors. The completion of the focused surface clearance would result in a significant reduction in MEC hazards; however, no MEC would be removed from either the surface outside of the clearance footprint or from the subsurface at any part of the MRS. Some munitions may remain under existing structures such as roads, buildings, sidewalks, and paved areas within the clearance footprint. Planning for the clearances should consider potential impacts to the environment in the MRS, and will involve coordination with the TPWD and may require endangered species surveys; however, based on current listings, affects to endangered species and their habitat is not anticipated as a result of the remedial action. This alternative would also include LUCs discussed under Alternative 2.

9.1.4 Alternative 4: Land Use Controls; 100 Percent Surface Clearance

For this alternative, 100 percent of the acreage of the MRS (97 acres) would be subject to a MEC surface clearance. The completion of the remedial action over 100 percent of the MRS would result in a significant reduction in MEC hazards; however, no MEC would be removed from the subsurface. Planning for the clearances should consider the significant impacts to the environment in the MRS, and will involve coordination with the TPWD and may require endangered species surveys. While no endangered species have been encountered at the former Camp Maxey and the habitat necessary to support most of Lamar County's federal or state protected species does not exist at the former Camp Maxey, any comparable habitat would be destroyed as a result of Alternative 4. This alternative would also include LUCs discussed under Alternative 2.

9.1.5 Alternative 5: 100 Percent Surface and Subsurface Clearance (Unlimited Use/Unrestricted Exposure)

This alternative consists of conducting a surface and subsurface clearance over the entire MRS (100 percent) allowing unlimited use and unrestricted exposure for the property. The subsurface clearance will be completed to a specified depth outside of areas that can be confirmed to have been cleared in previous remedial actions to ensure the property is acceptable for unlimited use and unrestricted exposure. The specific subsurface clearance depth for the Grenade Range Area MRS is 12 inches bgs. The 12-inch clearance depth is conservative and based on munitions finds within all the MRSs in the Eastern Range Area and current and anticipated future land use. The completion of the remedial action over 100

percent of the MRS would result in a significant reduction in MEC hazards; however, some munitions may be missed under existing structures such as roads, buildings, sidewalks, and paved areas not likely to be cleared. Planning for the surface clearance should consider the significant impacts to receptors and the environment in the MRS, and will involve coordination with the TPWD and may require endangered species surveys. While no endangered species have been encountered at the former Camp Maxey and the habitat necessary to support most of Lamar County's federal or state protected species does not exist at the former Camp Maxey, any comparable habitat would be destroyed as a result of Alternative 5.

LUCs and five-year reviews are not required as part of this alternative as it is designed to provide for unlimited use and unrestricted exposure for the entire MRS.

9.2 Five-Year Reviews

Remedial Alternative 1, Alternative 2, Alternative 3, and Alternative 4 do not allow for unlimited use/unrestricted exposure (UU/UE) in accordance with 40 Code of Federal Regulations (CFR) 300.430(f)(4)(ii); therefore, five-year reviews will be performed in addition to the remedial actions included in each of the three alternatives identified to ensure that the remedy remains protective of human health and the environment. Five-year reviews are a requirement for all alternatives not allowing for UU/UE use in accordance with 40 CFR 300.430(f)(4)(ii). A Five-Year Review Report will document the information collected and evaluated, and present the findings of the evaluation of the continued protectiveness of LUCs at the Western Range Area C MRS. The report will document whether the selected alternative continues to minimize explosive safety risks and is still protective of human health, safety, and the environment and/or recommend follow-up actions that may be warranted.

9.3 Expected Outcomes of Each Alternative

There are no socioeconomic or community revitalization impacts anticipated as a result of implementing any of the alternatives, and no environmental or ecological benefits (such as restoration of sensitive ecosystems, protection of endangered species, protection of wildlife resources, or wetlands restoration).

9.3.1 Alternative 1: No Action Alternative

No further action is conducted under this alternative to locate, remove, dispose of, or limit exposure to any potential MEC. No institutional controls (e.g., education, deed notices, construction permits, etc.) are implemented. No costs are associated with this alternative since there would be no action. Evaluation of this alternative is required and used as a baseline for comparison with other alternatives. This alternative does not meet the RAOs or effectiveness screening criteria for the Grenade Range Area MRS because there is a potentially complete MEC pathway.

9.3.2 Alternative 2: Land Use Controls

The LUC alternative requires that signs be installed on and around the MRS on public property and a 3Rs educational program be implemented to warn of the potential explosive hazards associated with the site. A LTM plan would be required to inspect LUCs, and provide 3Rs educational material on a periodic basis. In addition, the LTM plan will address the potential for MEC that may become exposed due to natural forces such as erosion along shorelines.

The LUC alternative would provide for reasonable protection of human health and the environment

through education of site risks and limitation of access to potential human receptors. This alternative is effective in both the short- and long-term because it reduces the potential for human receptors to encounter MEC at the MRS. There is no source reduction of MEC associated with this alternative. The LUC alternative can be implemented easily as no specialized equipment or personnel are required, there is a very low level of potential environmental disturbance, and the entire MRS is on public property making the implementation of LUCs feasible.

9.3.3 Alternative 3: Land Use Controls; Focused Surface Clearance

This alternative consists of conducting a focused surface clearance in frequented public use areas of the MRS (e.g., trails, dirt roads, shorelines). LUCs would require that signs be installed on and around the MRS on public property and a 3Rs educational program be implemented to warn of the potential explosive hazards associated with the site. A LTM plan would be required to inspect LUCs, and provide 3Rs educational material on a periodic basis. In addition, the LTM plan will address the potential for MEC that may become exposed due to natural forces such as erosion along shorelines.

The LUC and focused surface clearance alternative would be protective of human health and the environment through education of site risks and because it removes the direct contact pathway between potential receptors and MEC on the ground surface in areas most likely to be accessed by receptors. This alternative is effective in both the short- and long-term because it reduces the potential for human receptors to encounter MEC at the MRS. The completion of the removal action on the ground surface would result in a significant reduction of MEC hazards; however, potential MEC would remain in the subsurface. The surface clearance is implementable using conventional surface clearance techniques and LUCs require no specialized equipment or personnel. UXO technicians will use handheld metal detectors to determine the presence of metallic anomalies and suspect UXO will be removed and disposed of on-site using demolition procedures. All MD will be inspected, certified, and shipped offsite for disposal. The MEC removal will be conducted by trained UXO technicians. The MRS is on public property, making the implementation of LUCs feasible.

Due to limitations in detection technology and because 100 percent coverage will not be possible in all areas of the MRS, it is possible that some munitions may be missed. As part of Alternative 2, a 3Rs educational awareness program will be conducted as described in Section 9.1.2.

9.3.4 Alternative 4: Land Use Controls; 100 Percent Surface Clearance

This alternative consists of conducting a surface clearance over the entire MRS (100 percent). LUCs would consist of the same signage, 3Rs educational program, and LTM as described in Alternative 2.

The LUCs and 100 percent surface clearance alternative would be protective of human health and the environment through education of site risks and because it removes the direct contact pathway between potential receptors and MEC on the ground surface. This alternative is effective in both the short- and long-term because it reduces the potential for human receptors to encounter MEC at the MRS. The completion of the removal action on the ground surface would result in a significant reduction of MEC hazards; however, potential MEC would remain in the subsurface. The surface clearance is implementable using conventional surface clearance techniques and LUCs require no specialized equipment or personnel. UXO technicians will use handheld metal detectors to determine the presence

of metallic anomalies and suspect UXO will be removed and disposed of on-site using demolition procedures. All MD will be inspected, certified, and shipped offsite for disposal. The MEC removal will be conducted by trained UXO technicians. Implementation of this alternative is problematic due to the high level of potential environmental disturbance and substantial vegetation removal required to complete a surface clearance over the entire MRS. The MRS is on public property, making the implementation of LUCs feasible.

Due to limitations in detection technology and because 100 percent coverage will not be possible in all areas of the MRS, it is possible that some munitions may be missed. As part of Alternative 4, a 3Rs educational awareness program will be conducted as described under Alternative 2 in Section 9.1.2.

9.3.5 Alternative 5: 100 Percent Surface and Subsurface Clearance (Unlimited Use/Unrestricted Exposure)

Alternative 5 is similar to Alternative 4 for the Grenade Range Area MRS, except a subsurface clearance would be conducted over the entire MRS (100 percent) (with the exception of under existing structure, roads, buildings, paved areas, etc.) in conjunction with the surface removal allowing unlimited use and unrestricted exposure for the property. The subsurface clearance will be completed to a specified depth. Based on munitions finds and current and anticipated future land use Alternative 4 provides for MEC to be removed from the subsurface to a depth of 12 inches bgs.

The unlimited use/unrestricted exposure alternative would be protective of human health and the environment because it removes the direct contact pathway between potential receptors and MEC on the ground surface and from the subsurface. This alternative is effective in both the short- and long-term because it reduces the potential for human receptors to encounter MEC at the MRS. The completion of the surface and subsurface clearances would result in a significant reduction of MEC hazards. The clearances are implementable using conventional surface and subsurface clearance techniques. The detection and identification of anomalies attributable to MEC will be performed by specialists (geophysicists) experienced in the detection of buried munitions. These specialists will conduct DGM using a specialized metal detector that records the locations of buried metallic items and interpret the data to identify locations of subsurface MEC. In areas where DGM cannot be conducted, UXO technicians will use handheld metal detectors to determine the presence of underground metallic anomalies. Suspect UXO will be removed and disposed of on-site using demolition procedures. All MD will be inspected, certified, and shipped offsite for disposal. The MEC removal will be conducted by trained UXO technicians. Implementation of this alternative is problematic due to the high level of potential environmental disturbance and substantial vegetation removal required to complete a surface clearance over the entire MRS. LUCs and five-year reviews would not be required as part of this alternative as risk associated with potential MEC would be reduced to an acceptable level.

10 COMPARATIVE ANALYSIS OF ALTERNATIVES

10.1 Evaluation Method

A detailed analysis was completed for the various remedial alternatives developed to address the potential MEC hazards at the Grenade Range Area MRS. The purpose of this detailed analysis was to evaluate and compare the range of remedial action alternatives against the baseline condition (no action) and each other to select one preferred alternative that was considered the most suitable to address the risks present. A detailed account of this analysis is provided in the FS for Camp Maxey (EOTI, 2014). A summary of this process is provided here.

The detailed analysis involved evaluating each identified remedial alternative against nine criteria, as defined by CERCLA. These nine criteria fall into three groups: threshold criteria, primary balancing criteria, and modifying criteria. A description and purpose of the three groups of criteria follows:

- **Threshold criteria** are requirements that each alternative must meet in order to be eligible for selection and include (a) overall protectiveness of human health and the environment and (b) compliance with ARARs.
- **Primary balancing criteria** are used to weigh major trade-offs among alternatives and include (a) long-term effectiveness and permanence, (b) reduction of toxicity, mobility, or volume of contaminants through treatment, (c) short term effectiveness, (d) implementability, and (e) cost
- **Modifying criteria** include (a) state/support agency acceptance and (b) community acceptance, and require review of the remedial alternatives by stakeholders. For this reason, while these criteria may be considered to the extent that information is available during the FS, they can only be fully considered after public comment is received on the Proposed Plan. In the final balancing of trade-offs between alternatives upon which the final remedy selection is based, modifying criteria are equally important as the balancing criteria.

The details of the nine evaluation criteria are explained further in Table 1 below. A summary of the evaluation of the threshold and primary balancing criteria, applied to the alternatives applicable to the Grenade Range Area MRS, is provided in Table 2 and the estimated costs to implement the alternatives are presented in Table 3. Further details regarding this evaluation are provided in Chapter 9 of the *Final RI/FS Report for the former Camp Maxey* (EOTI, 2014).

Table 1: Summary of Evaluation Criteria for Remedial Alternatives

| |
|---|
| <p>Overall Protection of Human Health and the Environment addresses whether a remedial alternative will achieve adequate protection of human health and the environment and describes how MEC at the site will be eliminated, reduced, or controlled through treatment, engineering, and/or LUCs. Because there is not an established threshold for MEC hazard, the goal is to effectively minimize or eliminate the exposure pathway between the MEC and receptor.</p> |
| <p>Compliance with ARARs addresses whether a remedial alternative meets all applicable, appropriate, or relevant selected federal and state environmental statutes and regulations. To be acceptable, an alternative shall comply with ARARs or be covered by a waiver. Based on the results of the RI, risks from concentrations of MC to human health or ecological receptors at the former Camp Maxey MRSs are negligible. As such, ARARs for MC are not applicable. Substantive portions of the Resource Conservation and Recovery Act (RCRA) Disposal Requirements (40 CFR 264, Subpart X) may apply if, as part of a surface or subsurface clearance, munitions are consolidated for treatment, storage, or disposal. This ARAR would not be applicable for either the No Action Alternative or the stand-alone LUC Alternative as no munitions would be encountered during the remedial action.</p> |
| <p>Long-Term Effectiveness and Permanence addresses the ability of a remedial alternative to maintain reliable protection of human health and the environment over time. This criterion considers the magnitude of residual hazard, the adequacy of the response in limiting the hazard, and whether LUCs and long-term maintenance are required.</p> |
| <p>Reduction of Volume, or Removal, of MEC relates to the extent to which the remedial alternatives permanently reduce the volume of MEC and reduces the associated safety hazard. Factors for this criterion for MEC include the degree of permanence of the remedial action, the amount of MEC removed/demolished, and the type and quantity of MEC remaining.</p> |
| <p>Short-Term Effectiveness addresses the period of time needed to implement the remedy and any adverse impacts that may be posed to workers, the community, and the environment during implementation. MEC removal poses risks to workers and the public that are not associated with environmental contaminants that must be considered and controlled.</p> |
| <p>Implementability refers to the technical and administrative feasibility of implementing each Alternative and the availability of services and materials are addressed by this criterion. This criterion also considers the degree of coordination required by the regulatory agencies, successful implementation of the remedial action at similar sites, and research to realistically predict field implementability.</p> |
| <p>Cost addresses the capital costs, in addition to annual costs anticipated for implementation of the response action.</p> |
| <p>Regulatory Acceptance is used to evaluate the technical and administrative concerns of the regulatory community regarding the alternatives, including an assessment of the regulatory community's position and key concerns regarding the alternative, and comments on ARARs or the proposed use of waivers.</p> |
| <p>Community Acceptance includes an evaluation of the concerns of the public regarding the alternatives. It determines which component of the alternatives interested persons in the community support, have reservations about, or oppose.</p> |

Table 2: Detailed Analysis of Alternatives for Grenade Range Area MRS

| Criteria | | Alternative 1: No Action |
|----------------------------|--|--|
| Threshold Criteria | Overall Protection of Human Health and the Environment | This alternative is not protective of human health or the environment because it does not mitigate risk associated with the potential presence of MEC. |
| | Compliance with ARARs | No actions are associated with this alternative; therefore, no ARARs are identified. |
| Primary Balancing Criteria | Short-term Effectiveness | Does not meet short-term effectiveness requirements (does not remove or reduce exposure to MEC) |
| | Long-term Effectiveness | Does not meet long-term effectiveness requirements (does not remove or reduce exposure to MEC) |
| | Reduction of Toxicity, Mobility, Volume | Does not reduce toxicity, mobility, or volume because no remediation takes place. |
| | Implementability | Highly implementable because no remedial action occurs. |
| | Cost Estimate (Net Present Value [NPV]) | No cost is associated with this alternative because no action would be taken. |
| Modifying Criteria | Regulatory and Community Acceptance | TCEQ does not concur with Alternative 1 as no actions are associated with this alternative to address hazards at the site. As described in Part 3 of this Decision Document, no comments pertaining to any of the alternatives were received during the public comment period. |
| Criteria | | Alternative 2: LUCs |
| Threshold Criteria | Overall Protection of Human Health and the Environment | This alternative protects human health and the environment by educating potential receptors about the explosive hazards associated with MEC and by deterring unnecessary access to impacted areas. |
| | Compliance with ARARs | No ARARs are identified for this alternative. The only ARAR identified for the former Camp Maxey (RCRA Subpart X) is not applicable for this alternative as no MEC will be encountered and no consolidated demolition shots will be required. |
| Primary Balancing Criteria | Short-term Effectiveness | Offers short-term effectiveness by reducing the potential for human receptor interaction with MEC at the site because the risk would be reduced shortly after implementation of the LUCs and because the remedy does not increase risk to workers. |
| | Long-term Effectiveness | Offers long-term effectiveness by reducing the potential for human receptor interaction with MEC at the site. Statutory five-year reviews are required to ensure the remedy remains protective of human health and the environment. |
| | Reduction of Toxicity, Mobility, and Volume | Reduces the potential for human receptor exposure to MEC risks by education and determent. Does not reduce the toxicity, mobility, or volume of MEC. |
| | Implementability | Highly implementable because the monetary and environmental cost to implement is relatively low; services and materials are available; and specialized equipment and/or personnel are not required. |
| | Cost Estimate (NPV) | Total cost is \$273,000. |
| Modifying Criteria | Regulatory and Community Acceptance | TCEQ does not concur with Alternative 2 as deed restrictions are not included as a LUC (see Section 10.3). As described in Part 3 of this Decision Document, no comments pertaining to any of the alternatives were received during the public comment period. |

| Criteria | | Alternative 3: LUCs; Focused Surface Clearance |
|----------------------------|--|--|
| Threshold Criteria | Overall Protection of Human Health and the Environment | This alternative protects human health and the environment by removing MEC from the ground surface in specific areas of the MRS frequently used by the public and educating potential receptors about the explosive hazards associated with MEC and by deterring unnecessary access to impacted areas. |
| | Compliance with ARARs | This alternative will comply with ARARs by following RCRA Subpart X requirements when consolidating shots of MEC. |
| Primary Balancing Criteria | Short-term Effectiveness | Offers short-term effectiveness by reducing the potential for human receptor interaction with MEC because the risk would be reduced immediately following the MEC clearance and LUC implementation. There is an increase in short-term risk to workers associated with the surface clearance. |
| | Long-term Effectiveness | Offers greater long-term effectiveness by removing the source on the ground surface; thereby, along with LUCs, reducing the potential for human receptor interaction with MEC at the site. Statutory five-year reviews are required to ensure the remedy remains protective of human health and the environment. |
| | Reduction of Toxicity, Mobility, and Volume | Effective at reducing the volume of MEC on the ground surface. LUCs reduce the subsurface exposure risk to human receptors through education and determent. |
| | Implementability | This alternative is implementable using conventional surface clearance techniques and services and materials are available. Specially trained personnel are required for the surface clearance. |
| | Cost Estimate (NPV) | Total cost is \$540,000. |
| Modifying Criteria | Regulatory and Community Acceptance | TCEQ does not concur with Alternative 3 as deed restrictions are not included as a LUC (see Section 10.3). As described in Part 3 of this Decision Document, no comments pertaining to any of the alternatives were received during the public comment period. |
| Criteria | | Alternative 4: LUCs; 100% Surface Clearance |
| Threshold Criteria | Overall Protection of Human Health and the Environment | This alternative protects human health and the environment by removing MEC from the ground surface and educating potential receptors about the explosive hazards associated with MEC and by deterring unnecessary access to impacted areas. |
| | Compliance with ARARs | This alternative will comply with ARARs by following RCRA Subpart X requirements when consolidating shots of MEC. |
| Primary Balancing Criteria | Short-term Effectiveness | Offers short-term effectiveness by reducing the potential for human receptor interaction with MEC because the risk would be reduced immediately following the MEC clearance and LUC implementation. There is an increase in short-term risk to workers associated with the surface clearance. |
| | Long-term Effectiveness | Offers greater long-term effectiveness by removing the source on the ground surface; thereby, along with LUCs, reducing the potential for human receptor interaction with MEC at the site. Statutory five-year reviews are required to ensure the remedy remains protective of human health and the environment. |
| | Reduction of Toxicity, Mobility, and Volume | Effective at reducing the volume of MEC on the ground surface. LUCs reduce the subsurface exposure risk to human receptors through education and determent. |

| | | |
|----------------------------|--|--|
| | Implementability | This alternative is implementable using conventional surface clearance techniques and services and materials are available. Specially trained personnel are required for the surface clearance. The high level of vegetation removal and environmental disturbance required for the 100% surface clearance makes implementing this alternative challenging. |
| | Cost Estimate (NPV) | Total cost is \$801,000. |
| Modifying Criteria | Regulatory and Community Acceptance | TCEQ does not concur with Alternative 3 as deed restrictions are not included as a LUC (see Section 10.3). As described in Part 3 of this Decision Document, no comments pertaining to any of the alternatives were received during the public comment period. |
| Criteria | | Alternative 5: 100% Surface and Subsurface Clearance (12 Inches) (Unlimited Use/Unlimited Exposure) |
| Threshold Criteria | Overall Protection of Human Health and the Environment | This alternative protects human health and the environment by removing MEC from the ground surface and from the subsurface over the entire MRS. |
| | Compliance with ARARs | This alternative will comply with ARARs by following RCRA Subpart X requirements when consolidating shots of MEC. |
| Primary Balancing Criteria | Short-term Effectiveness | Offers short-term effectiveness by reducing the potential for human receptor interaction with MEC because the risk would be reduced immediately following the MEC clearance. There is an increase in short-term risk to workers associated with the surface and subsurface clearances. |
| | Long-term Effectiveness | Offers greater long-term effectiveness by removing the source on the ground surface and from the subsurface; thereby,, reducing the potential for human receptor interaction with MEC at the site. This alternative is considered permanent and statutory five-year reviews are not required. |
| | Reduction of Toxicity, Mobility, and Volume | Effective at reducing the volume of MEC on the ground surface and from the subsurface. |
| | Implementability | This alternative is implementable using conventional MEC clearance techniques and services and materials are available. Specially trained personnel are required for the MEC clearance. The high level of vegetation removal and environmental disturbance required for the 100% surface and subsurface clearance makes implementing this alternative challenging. |
| | Cost Estimate (NPV) | Total cost is \$1,286,000. |
| Modifying Criteria | Regulatory and Community Acceptance | In response to the Final RI/FS Report, the State of Texas has stated, "...detection and removal methods are not 100-percent effective, therefore TCEQ cannot support unlimited use and unrestricted exposure as part of a final remedy." As described in Part 3 of this Decision Document, no comments pertaining to any of the alternatives were received during the public comment period. |

Table 3: Grenade Range Area Cost Analysis Table

| Alternative | Cost ¹ |
|--|------------------------|
| Alternative 1: No Action | No Cost |
| Alternative 2: Land Use Controls (LUCs) | \$273,000 ² |
| Alternative 3: LUCs; Focused Surface Clearance | \$540,000 ² |
| Alternative 4: LUCs; 100 Percent Surface | \$801,000 ² |
| Alternative 5: 100 Percent Surface and Subsurface Clearance (12inches) (Unlimited Use/Unrestricted Exposure) | \$1,286,000 |

Notes: ¹Cost are NPV

²Alternative 2 and 3 include costs for 30 years of five-year reviews.

10.2 Evaluation Summary

The five alternatives were evaluated in terms of the nine criteria (Table 1 above). Table 2 above summarizes the evaluation and identifies the most practicable solution for reducing the potential MEC exposure hazard at the MRS.

Alternative 1 – Alternative 1 must be ruled out for the Grenade Range Area MRS at Camp Maxey because it is ineffective. Alternative 1 provides no source reduction or reduction of future risk, and is therefore the least protective of human health and the environment. Alternative 1 provides no reduction of source area toxicity, mobility, or volume. Because no actions are required for Alternative 1, it is highly implementable, could be implemented immediately, and there would be no short-term risks associated with implementing it.

Alternative 2 – Alternative 2 is protective of human health and the environment and reduces risk associated with MEC hazards through LUCs. However, this alternative provides no source reduction or any reduction of source toxicity, mobility, or volume because no MEC would be removed. The LUCs associated with Alternative 2 are easily implementable and could be implemented immediately. There would be no short-term risks associated with Alternative 2. Estimated costs associated with Alternative 2 are relatively low compared to the other evaluated alternatives (\$273,000).

Alternative 3 – Alternative 3 is protective of human health and the environment and reduces risk associated with MEC hazards through LUCs. A combination of LUCs and a focused MEC surface clearance is effective at reducing risk of MEC exposure. Both the MEC source and its toxicity, mobility, and volume will be reduced on the ground surface; however, potential MEC will remain on the surface in areas outside of the surface clearance footprint and in the subsurface. It is implementable, though trained and qualified UXO technicians and specialized equipment are required; however, these are both available. Implementation of the focused surface clearance is feasible because the level of environmental disturbance (i.e., vegetation removal) required is limited because much of the publically frequented and accessible areas are by their nature free

of dense vegetation. Although there are some short-term risks to workers and the environment associated with the removal, they would be mitigated by best practices. This alternative would be implemented relatively quickly, depending on availability of funding. Estimated costs associated with Alternative 3 are moderate compared to the other evaluated alternatives (\$540,000).

Alternative 4 – Alternative 4 is protective of human health and the environment. LUCs, combined with a surface clearance over the entire MRS (100 percent), are very effective at reducing risk of MEC exposure. The MEC source and its toxicity, mobility, and volume will be reduced on the ground surface. It is implementable, though trained and qualified UXO technicians and specialized equipment are required. Because the MRS is currently used as a undeveloped land used for recreational activities (e.g., hunting), implementation of the 100 percent surface clearance will be very difficult due to the high level of environmental disturbance (i.e., vegetation removal) required. Although there are some short-term risks to workers and the environment associated with the removal, they would be mitigated by best practices. Estimated costs associated with Alternative 4 are moderate compared to the other evaluated alternatives (\$801,000).

Alternative 5 – Alternative 5 is also protective of human health and the environment relative to the removal of explosive hazards associated with MEC. A combination of surface and subsurface clearances throughout the entire MRS (100 percent) is very effective at reducing risk of MEC exposure. The MEC source and its toxicity, mobility, and volume will be reduced. It is implementable, though trained and qualified UXO technicians and specialized equipment are required. Although there are some short-term risks to workers and the environment associated with the removal, they would be mitigated by best practices. Similar to Alternative 4, the level of environmental disturbance required for this alternative is extremely high. The estimated costs associated with this alternative are relatively high compared to the other alternatives evaluated (\$1,286,000) and TCEQ would not agree with UU/UE.

10.3 State Acceptance

TCEQ has requested that LUCs at the former Camp Maxey include the following, "A legal instrument be placed in the property records... which indicates the limitations on or the conditions governing use of the property which ensures protection of human health and the environment (Texas Administrative Code §350.4(a)(47) as well as §350.11 (Subchapter F))." In a letter dated August 17, 2017, TCEQ stated "Based on our review, the TCEQ approves the plans outlined in the Decision Documents and the USACE response to comments with some exceptions. Please proceed with actions outlined in the Decision Documents while noting the comments below..." The comments re-iterated TCEQ's desire to have deed notices or restrictions placed on the property. USACE has no authority to implement legal instruments at FUDS; therefore, since the inclusion of the requested legal instrument is not implementable it is not included as part of any remedial alternative.

10.4 Community Acceptance

As described in Part 3 of this Decision Document, no comments pertaining to any of the alternatives were received during the public comment period. After the Decision Document is signed, USACE shall publish a notice of the availability of the Decision Document in The Paris News and make the Decision Document available for public inspection and copying at the Paris Public Library, 326 S. Main Street, Paris, Texas prior to the beginning of any remedial action.

11 PRINCIPAL THREAT WASTES

As discussed in the prior sections of this Decision Document, potential hazards from MEC were identified at the Grenade Range Area MRS. There are no materials constituting principal threats related to MC at the Grenade Range Area MRS.

12 SELECTED REMEDY

12.1 Rationale for the Selected Remedy

Based on the comparative analysis, Alternative 3 (LUCs; Focused Surface Clearance) is the selected remedy for the Grenade Range Area MRS because it offers an acceptable solution to controlling the moderate to high MEC risk to human receptors and allows for current use of the property as a publically accessible recreational area without extensive environmental disturbance. This remedy would involve the completion of a focused surface clearance, the installation of signs on public property on and surrounding the Grenade Range Area MRS, implementation of a 3Rs public education program, and establishment of a LTM program.

The completion of the remedial action would result in a significant reduction in hazards associated with MEC through a focused surface clearance and the use of LUCs and provides benefits over other alternatives as MEC and munitions debris density is moderate to high. Additionally, Alternative 3 can be implemented relatively quickly without the need for extensive vegetation removal and at a substantially lower cost. The estimated total cost for Alternative 3 at the Grenade Range Area MRS is \$540,000

12.2 Description of the Selected Remedy

As described above in Section 9.0, the selected remedy is a combination of LUCs and a focused surface clearance, including a 30-foot buffer zone, in areas frequented by the public for recreational activities (i.e., dirt roads and shorelines.) LUCs as part of this alternative include signage, a 3Rs public educational awareness program, and a LTM program. Since the remedy will not obtain unlimited use/unrestricted exposure, five-year reviews will be conducted to monitor and review the effectiveness of the alternative.

12.3 Cost Estimate for the Selected Remedy

The information in the cost estimate summary table below (Table 4) is based on the best available information regarding the anticipated scope of the selected remedy. The total estimated cost for the selected remedy is \$540,000. Changes in this cost estimate are likely to accrue as a result of new information. Major changes may be documented in the form of a memorandum in the Administrative Record file, an Explanation of Significant Difference (ESD), or a Decision Document amendment. This is an order-of-magnitude cost estimate that is expected to be within +50 to -30 percent of the actual project cost. Cost savings could be realized by having one combined 3Rs public education program for the entire former Camp Maxey.

12.4 Expected Outcomes of the Selected Remedy

Following the implementation of the selected remedy at the Grenade Range Area MRS, the land uses at the MRS will remain the same.

There are no socioeconomic or community revitalization impacts anticipated as a result of implementing the selected remedy, nor are there any significant expected environmental or ecological benefits.

Table 4: Cost Estimate Summary for the Selected Remedy

| Alternative 3: | |
|--|------------------|
| Land Use Controls (Signage, Public Education, and LTM); Focused Surface Clearance | |
| Administrative Actions (Planning [Remedial Design] and Coordination) ¹ | \$155,000 |
| Site Preparation, Clearance, and Signage (Mobilization/Demobilization, Land Survey, Surface Clearance, Demolition and Scrap Management) ¹ | \$108,000 |
| LTM, Monitoring, and Five-year Reviews ² | \$135,000 |
| Implementation Costs (e.g., Administrative and Legal, management, reporting, etc.) ^{1/2} | \$142,000 |
| Total Estimated Cost | \$540,000 |

Notes: ¹Capital Cost

²Present Value of Annual Costs

13 STATUTORY DETERMINATIONS

Based on the information currently available, the selected remedy for the Grenade Range Area MRS (a combination of LUCs and a focused surface clearance) is protective of human health and the environment and satisfies the statutory requirements of CERCLA §121(b) with regards to the former use of the MRS by the Army and DoD. The selected remedy is cost-effective and utilizes permanent solutions and alternative treatment technologies to the maximum extent practicable. Substantive portions of the Resource Conservation and Recovery Act (RCRA) Disposal Requirements (40 CFR 264, Subpart X) may apply as an applicable or relevant and appropriate requirement (ARAR) if, as part of a surface or subsurface clearance, munitions are consolidated for treatment, storage, or disposal.

Because this remedy will not allow for unlimited use and unrestricted exposure at the MRS, a statutory review will be conducted no less often than five years after initiation of remedial action to ensure that the remedy continues to be protective of human health, safety, and the environment and minimizes explosive safety hazards. If new information arises concerning contamination conditions at the site or if land uses change beyond what has been assumed, the evaluation of remedial alternatives may need to be revisited.

14 DOCUMENTATION OF SIGNIFICANT CHANGES FROM PREFERRED ALTERNATIVE OF PROPOSED PLAN

The selected remedy described in this Decision Document (a combination of LUCs and a focused surface clearance) is unchanged from that detailed in the *Final Proposed Plan for the Former Camp Maxey* (EOTI, 2014b).

PART 3 - RESPONSIVENESS SUMMARY

1 Stakeholder Issues and Lead Agency Responses

1.1 Regulatory Concurrence and Comment

The *RI/FS Report for Former Camp Maxey* (EOTI, 2014) and *Proposed Plan for Former Camp Maxey* (EOTI, 2014b) were submitted to TCEQ for review and comment. TCEQ made one comment regarding the general implementation of LUCs at the former Camp Maxey. The comment and response are provided below:

Comment: "Land Use Controls: In addition to signage, training, and education, the State of Texas requires "A legal instrument be placed in the property records which indicates the limitations on or the conditions governing use of the property which ensures protection of human health and the environment (Texas Administrative Code §350-4(a)(47) as well as §350.11(Subchapter F)).

The purpose of the controls are to provide permanent notice of actual and/ or potential hazards associated with the property and to inform potential landowners and users of conditions to ensure protective property use.

These legal instruments range from deed notices, restrictive covenants, and equivalent zoning or government ordinance that would be functionally equivalent to a deed notice. Although the munitions constituents (MC) may be controlled on site, MEC will never be 100% certain of removal. More is needed to notify the public of the potential hazards of owning and using the property."

Response: "The TAC provisions require that a legal instrument in the form of a deed notice, Voluntary Cleanup Program Certificate of Completion, or restrictive covenant be placed in the appropriate property records. Some of the property at this site is under USACE control and we will ensure appropriate LUCs are in place for that property -these LUCs would not include deed restrictions; but, would be in keeping with USACE's federal landownership responsibilities. However, other property is in private ownership and USACE has no authority to place restrictions on that property. TAC 350.111 specifically requires landowner consent for the requested property restrictions. Moreover, the statute specifically states that, "restrictive covenants shall be executed only by the landowner". While TCEQ may have the regulatory authority to override a landowner, USACE does not.

Accordingly, USACE is unable to agree to your request to include TAC §350.11[1] (Subchapter F) in the FS as a proposed ARAR."

1.2 Public Comment

The USACE also made the Proposed Plan for the Former Camp Maxey MRSs available for public comment between 17 June and 17 July 2014. This public comment period was announced through a notice placed in *The Paris News* newspaper (Attachment 1). No written comments were received during the public comment period.

In addition, a public meeting was held on 24 June 2014 at the Holiday Inn Express in Paris, Texas. At the public meeting, the results of the RI were summarized, the alternatives considered were described, and the alternative preferred by USACE was presented. Three people attended the 24 June 2014 public

meeting, and one question was asked during the presentation. The audio of the meeting was recorded, and a copy of the transcript is included in the Meeting Summary, which is part of the Administrative Record at the Paris Public Library, Paris, Texas.

Overview of Oral Questions at 24 June 2014 Public Meeting

Question (Assistant Police Chief): “If the Pat Mayes lake recedes a great amount around the areas that we are talking about during a drought and exposes more land around the area, are there plans to go in, if that happens, in the impact area?”

Answer: There are no plans at this time for this effort. (But) If there is a need, it would be USACE Ft. Worth’s call, then there could be a time critical removal action performed to remove munitions that were possibly uncovered during the drought. A time critical removal action is to be completed within six months.

REFERENCES

EOTI. 2014. Final Remedial Investigation and Feasibility Study Report, Former Camp Maxey Artillery Ranges, Lamar County, Texas. (April)

EOTI. 2014b. Final Proposed Plan, Former Camp Maxey Artillery Ranges, Lamar County, Texas. (June)

Brigance, Charles (Remediation Division, Texas Commission on Environmental Quality, Austin, Texas). Letter to Sarah Otto (Fort Worth District, United States Army Corps of Engineers, Fort Worth, Texas). 15 January 2014.

Fiehler, Scottie (Fort Worth District, United States Army of Engineers, Fort Worth, Texas). Letter to Charles Brigance (Remediation Division, Texas Commission on Environmental Quality, Austin, Texas). 19 May 2014.

Brigance, Charles (Remediation Division, Texas Commission on Environmental Quality, Austin, Texas). Letter to Sarah Otto (Fort Worth District, United States Army Corps of Engineers, Fort Worth, Texas). 5 June 2014.

ATTACHMENT 1

ANNOUNCEMENT OF PUBLIC NOTICE

Proof Of Publication

The Paris News • P.O. Box 1078 • Paris, Texas 75461

STATE OF TEXAS
COUNTY OF LAMAR
Before me, the undersigned authority, on this day personally appeared Relan Walker known to me, who being by me duly sworn on her oath deposes and says that she is the Business Manager of THE PARIS NEWS, a newspaper published in Paris, Lamar County, Texas and that a copy of the within citation was published in said newspaper THE PARIS NEWS, such publication being on the following dates:

June 17, 2014

and a newspaper copy of this is hereto attached.

Handwritten signature of Relan Walker

Relan Walker

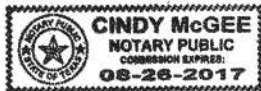
STATE OF TEXAS
COUNTY OF LAMAR
Before me, Cindy McGee, a notary public, on this day personally appeared Relan Walker, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for purposes and consideration therein expressed.

Given under my hand and seal of office:

This 23 day of June, A.D. 2014.

Handwritten signature of Cindy McGee

Cindy McGee



PUBLIC MEETING:

June 24, 2014
at 7:00 PM

The U. S. Army Corps of Engineers will hold a public meeting to explain the Proposed Plan and the alternatives presented in the Feasibility Study for the Former Camp Maxey. Verbal and written comments will be accepted during the meeting. The meeting will be held at the Holiday Inn Express, 3025 NE Loop 285, Paris, Texas at 7:00 p.m.

PUBLIC COMMENT PERIOD:

June 17 - July 17 2014

USACE will accept written comments on the Proposed Plan during the comment period. Written comments may be sent to:

USACE, Fort Worth District
ATTN: Ms. Sarah Otto
819 Taylor Street, Room 3A28
Fort Worth, Texas 76102

Comments must be postmarked no later than July 17, 2014.

ADMINISTRATIVE RECORD:

For more information on the site, see the Administrative Record at the:

Paris Public Library
326 S. Main Street
Paris, Texas 75460