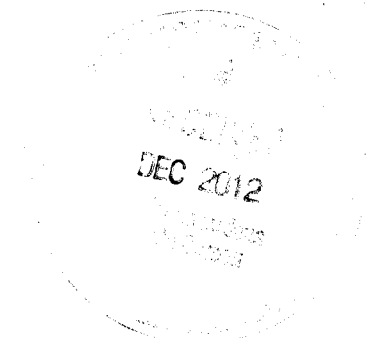




12/10/2012 ENTERED

DEPARTMENT OF THE AIR FORCE  
27TH SPECIAL OPERATIONS MISSION SUPPORT GROUP (AFSOC)  
CANNON AIR FORCE BASE NEW MEXICO



Colonel David C. Piech  
Commander  
110 E Sextant Avenue Suite 1098  
Cannon AFB NM 88103

Mr. Daniel Comeau  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East Bldg 1  
Santa Fe NM 87505-6063

Dear Mr. Comeau

Attached is the *Comprehensive Site Evaluation (CSE) Phase II Military Munitions Response Program (MMRP) Report*. If you have any questions regarding this submittal, please contact Mr. Ronald Lancaster, Chief, Asset Management Flight at (575) 784-1146 or Mr. Matthew Higginbotham, Restoration Program Manager at (575) 784-6031.

Sincerely

DAVID C. PIECH, Colonel, USAF  
Commander

Attachment:  
CSE Phase II MMRP Report

cc:  
Environmental Protection Agency, Region VI, Ms. Wendy Jacques w/o Attachment

Prepared for:



US Air Force

Prepared by:



US Army Corps of Engineers®  
Omaha District

Comprehensive Site Evaluation  
Phase II Report - Version 2.0

Military Munitions Response Program (MMRP)

Cannon Air Force Base, New Mexico



August 2012

## Comeau, Dan, NMENV

---

**From:** Peters, Laura CIV USAF AFSOC 27 SOCES/CEIEC <Laura.Peters@cannon.af.mil>  
**Sent:** Wednesday, October 09, 2013 12:42 PM  
**To:** Comeau, Dan, NMENV  
**Subject:** RE: Ver. 3.0, CSE Phase II Rpt. 1940s Skeet Range

Dan,  
If you wish to keep certain pages of the latest version and attach them to the original final, then that is fine.

Laura Peters  
Environmental Restoration Manager  
575-784-0490

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Bldg. 355  
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-----Original Message-----

From: Comeau, Dan, NMENV [<mailto:Dan.Comeau@state.nm.us>]  
Sent: Wednesday, October 09, 2013 11:49 AM  
To: Peters, Laura CIV USAF AFSOC 27 SOCES/CEIEC  
Subject: Ver. 3.0, CSE Phase II Rpt. 1940s Skeet Range

Hi Laura-

I've looked the report over and do not have any comments about it except as follows:

\* Version 2.0, lists Laughlin AFB on the first page of Fact Sheet 2 while Version 3.0 lists Sheppard AFB. Both Fact Sheets are obviously wrong in that regard. Version 3.0 also includes filled-in dates for when the Public Notice period began and ended along with an Affidavit of Legal Publication.

We've already approved the Ver. 2.0 report (letter dated 5/2/2013) with a couple minor modifications. In talking with Dave Cobrain this morning, he is of the opinion that we have the Ver. 3.0 report removed from our adm. record in the interest of heading off future potential HWB staff confusion over which document prevails as being the "Approved" document. I'm inclined to follow his suggestion (mostly) but would substitute the last two pages of the Version 3.0 report in the Version 2.0 report to address your possible concern about having a "complete" copy of events related to the former skeet range investigation.

Thanks,

Daniel Comeau  
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**Comprehensive Site Evaluation  
Phase II Report  
Version 2.0**

**Military Munitions Response Program**

**Cannon Air Force Base, New Mexico**



*Prepared for:*

**Headquarters, Air Force Special Operations Command**

*Prepared by:*

**U. S. Army Corps of Engineers, Omaha District (USACE)**

*With support from:*

**Versar, Inc.**

**12050 N. Pecos Street, Suite 300  
Westminster, Colorado 80234**

*Under USACE-Omaha Contract:*

**W9128F-08-D-0027, Task Order 0006**

**August 2012**

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## 1.0 INTRODUCTION

In support of the Military Munitions Response Program (MMRP) a Comprehensive Site Evaluation (CSE) Phase II was performed at Cannon Air Force Base (AFB). The goal of the U.S. Air Force (USAF) MMRP is to make Munitions Response Areas (MRAs) safe for reuse and to protect human health and the environment in the process. The MMRP addresses issues related to munitions and explosives of concern (MEC) and munitions constituents (MC) associated with MRAs, as well as related hazardous substances, pollutants, and potential contaminants of concern on other operational ranges. The MRA for Cannon AFB is presented on Figure 1-1.

### 1.1 Purpose

The USAF developed the CSE concept from existing data acquisition methods and data analysis, tracking, and reporting tools to serve as the initial site assessment [Comprehensive Environmental Restoration, Compensation, and Liability Act (CERCLA) Preliminary Assessment/Site Investigation (PA/SI)] for sites covered under the MMRP. The CSE is a holistic approach to munitions response and environmental restoration that assesses the unique challenges faced at MRAs, including explosives safety issues posed by MEC and associated releases of MC [e.g., hazardous substances; pollutants; contaminants; and petroleum, oil, and lubricants (POL)] to the environment. An MRA is defined as any area on a defense site that is known or suspected to contain MEC [including unexploded ordnance (UXO), discarded military munitions (DMM), and MC in high enough concentrations to pose an explosive hazard] or MC (e.g., former ranges or munitions burial areas). Based on information gathered during the CSE Phase II and depending on site-specific factors, each MRA may be designated as a single munitions response site (MRS), or it may be subdivided for the purposes of evaluation and response into multiple MRSs.

MRSs represent discrete locations within an MRA that, based on investigation or historical records, are known or suspected to contain MEC and/or MC and require a munitions response. Subdividing MRAs into multiple MRSs allows for more efficient characterization so that munitions responses specific to local conditions can be conducted.

The CSE process provides the historical, anecdotal, visual, analytical, and geophysical data that serves as the basis for USAF decision-making regarding follow-on munitions response actions. The CSE is conducted in two distinct phases: CSE Phase I generally will consist of historical records reviews (HRR) including aerial photographs, visual surveys, and interviews; CSE Phase II generally will consist of additional detailed visual surveys, environmental sampling, and geophysical surveys. The CSE Phase I and Phase II investigations differ from the traditional CERCLA PA and SI, however, with respect to data requirements. PA and SI activities primarily are focused on obtaining data to input into the Department of Defense (DoD) MRS Prioritization Protocol (MRSP) and site-sequencing for cleanup. The CSE process utilizes an expanded array of analytical, tracking, and reporting tools to support decision-making, and therefore, has greater data requirements. Tools utilized as part of the CSE include:

- Conceptual site model (CSM) for project communication, hazard assessment, and data gap analysis;
- MRSP to prioritize sites for further munitions response actions, based on relative risk;
- Hazard Ranking System (HRS) data elements;
- USAF Enterprise Environmental Safety and Occupational Health Management Information System (EESOH-MIS) Data Management Tool (DMT) for a range of program management functions, including data calls and audits; and
- Remedial Action Cost Engineering Requirements (RACER), MMRP Module for estimating the costs of future munitions response actions.

The objectives of this Cannon AFB CSE Phase II effort are to determine whether the single individual MRA within Cannon AFB warrants additional munitions response activities, definition as an MRS, or documentation for no further action (NFA) decisions.

## **1.2 Project Data Quality Objectives**

The Data Quality Objectives (DQOs) for this investigation are based on data requirements specified in *Air Force Guide for Conducting the CSE Phase II at Air Force MRAs (Version 4.0)* (USAF, 2006) for completion of Phase II investigations. Collected data have been used to complete the EESOH-MIS and RACER DMT worksheets, presented in Appendices J and K.

## **1.3 Project Management**

This CSE Phase II Report has been prepared by Versar, Inc. (Versar) for the Air Force Center for Engineering and the Environment (AFCEE) as well as the Air Force Special Operations Command (AFSOC) as part of the requirements of the U.S. Army Corps of Engineers (USACE), Omaha District Contract Number W9128F-08-D-0027, Task Order 0006. The USACE Project Manager is Mr. Glenn Marks, Project Management Professional (PMP).

## **1.4 Project Scope**

One MRA was identified at Cannon AFB based on the *Modified CSE Phase I Report* (USACE, 2009). Data gaps (MC contamination, potential for off-site impacts, etc.) were identified for this MRA – the 1940s Skeet Range (SR). In addition, three components of the Cannon AFB Modified CSE Phase I were deferred to the CSE Phase II including the CSM, the MRSP scoring elements, and the HRS scoring elements. The resulting Scope of Work (SOW), Proposed CSE Phase II Activities, and Proposed Path Forward for the MRA are summarized in Table 1-1.