FINAL OPERATIONAL RANGE ASSESSMENT PROGRAM PHASE I QUALITATIVE ASSESSMENT REPORT REDFIELD TRAINING AREA SPINK COUNTY, SOUTH DAKOTA

DECEMBER 2008

Prepared for:

UNITED STATES ARMY CORPS OF ENGINEERS, BALTIMORE DISTRICT P.O. Box 1715
Baltimore, Maryland 21203

and

UNITED STATES ARMY ENVIRONMENTAL COMMAND

Aberdeen Proving Ground, Maryland 21010

Prepared by:

MALCOLM PIRNIE, INC.

701 Town Center Drive Suite 600 Newport News, Virginia 23606



EXECUTIVE SUMMARY

The United States (U.S.) Army is conducting qualitative assessments at operational ranges to meet the requirements of Department of Defense policy and to support the U.S. Army Sustainable Range Program. The operational range qualitative assessment (hereinafter referred to as Phase I Assessment) is the first phase of the U.S. Army Operational Range Assessment Program. This Phase I Assessment evaluates the operational range area at South Dakota Army National Guard (SDARNG) Redfield Training Area to assess whether further investigation is needed to determine if potential munitions constituents of concern (MCOC) are or could be migrating off-range at levels that may pose an unacceptable risk to human health or the environment. In conducting the Phase I Assessment, MCOC sources, potential off-range migration pathways, and potential off-range human and ecological receptors are evaluated as appropriate.

Redfield Training Area is located northwest of Redfield, South Dakota, in Spink County. The SDARNG uses the local training area to train its soldiers in support of achieving its various missions. An update to the Army Range Inventory Database-Geodatabase (ARID-GEO) was submitted to the U.S. Army Environmental Command in December 2005. The ARID-GEO (2005) identifies two operational ranges; both are eligible for the Phase I Assessment. The two operational ranges (training and maneuver areas) evaluated in this Phase I Assessment encompass 175.18 acres with a total operational range area of 175.18 acres. The total operational range area was derived from the Operational Use Area (total range area) acreage as reported in ARID-GEO (2005). All of the local training area is identified as operational area (ARID-GEO, 2005).

A review of available records and background data, as well as an interview with SDARNG personnel, indicated that the operational ranges at Redfield Training Area have never been used for training involving military munitions (live-fire or non-live-fire). Training currently conducted at Redfield Training Area is limited to small unit operations and field training exercises. Because training activities do not involve, and historically have not involved, the use of military munitions, there are no potential sources of MCOC. Therefore, potential off-range migration pathways and potential off-range human and ecological receptors were not evaluated, and the ranges at Redfield Training Area are categorized as Unlikely.

Local training areas with operational ranges where no munitions or only small caliber blanks have been utilized are categorized as Unlikely. That is, based on a review of available information, there is sufficient evidence to show that due to the lack of munitions use there are no known releases or source-receptor interactions that could present an unacceptable risk to human health or the environment. Ranges categorized as Unlikely are required to be re-evaluated at least every five years. Re-evaluation may occur sooner if significant changes (e.g., change in range operations or site conditions, regulatory changes) occur that affect determinations made during this Phase I Assessment.

Table ES-1 summarizes the Phase I Assessment findings.

Malcolm Pirnie, Inc.

Table ES-1: Summary of Findings and Conclusions for Redfield Training Area

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human and Ecological Receptors	Conclusions
Unlikely	Two operational ranges; 175.18 acres	No source—no current or historical use of live-fire military munitions	Not evaluated (no source identified)		Re-evaluate during the five-year review.

Malcolm Pirnie, Inc. ES-2

ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
CSM	Conceptual Site Model
DoD	Department of Defense
MCOC	Munitions Constituents of Concern
ORAP	Operational Range Assessment Program
SDARNG	South Dakota Army National Guard
U.S.	United States
USACE	United States Army Corps of Engineers

Malcolm Pirnie, Inc.



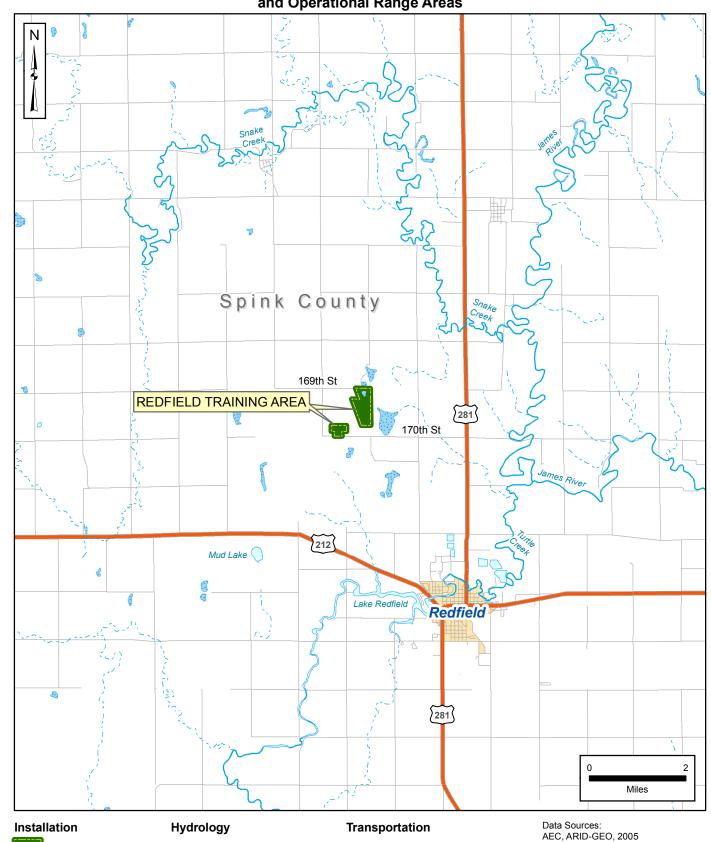


Operational Range Assessment Program Phase I Qualitative Assessment Redfield Training Area, SD

Figure 2-1







Highway

Major Road

Local Road

Urbanized Area

ESRI, StreetMap USA, 2005

....December 2008



Training Area Boundary

Operational Area

River/Stream (Perennial)

Stream (Intermittent)

Water Body (Perennial)

Water Body (Intermittent)

5:\Projects\ARMY\Installations\Redfield_Training_Area\ORAP\MXDs\Figures\Figure_2-1.mxd