

**FINAL
OPERATIONAL RANGE ASSESSMENT PROGRAM
PHASE I QUALITATIVE ASSESSMENT REPORT
ORCHARD MOBILIZATION AND TRAINING EQUIPMENT SITE
BOISE, IDAHO**

MARCH 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.
640 Freedom Business Center
Suite #310
King of Prussia, PA 19406



ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
ARNG	Army National Guard
CSM	Conceptual Site Model
DoD	Department of Defense
DODI	Department of Defense Instruction
EMO	Environmental Management Office
GIS	Geographic Information Systems
IDTL	Initial Default Target Levels
JIC	Joint Installation Command
MATES	Mobilization and Training Equipment Site
MCOC	Munitions Constituents of Concern
NCA	National Conservation Area
ORAP	Operational Range Assessment Program
OTA	Orchard Training Area
RDX	Cyclotrimethylenetrinitramine
RFMSS	Range Facility Management Support System
U.S.	United States
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey

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 Orchard Mobilization and Training Equipment Site (MATES) 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.

Orchard MATES encompasses 643 acres in Ada County, Idaho. The installation is located approximately 16 miles south of Boise, Idaho, adjacent to the Orchard Training Area. According to the Army Range Inventory Database-Geodatabase from 2006, two training and maneuver ranges encompassing 563 acres are present on the installation. The remaining 80 acres are considered other than operational range area.

A review of available records and background data, as well as interviews with installation personnel, indicates that the ranges at Orchard MATES have never been used for training involving military munitions (live-fire or non-live-fire). Training currently conducted at Orchard MATES is limited to bivouacking. 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 Orchard MATES are categorized as Unlikely.

Installations with operational ranges where no munitions, either live-fire or non-live-fire, 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, site conditions, regulatory changes) occur that affect determinations made during this Phase I Assessment. **Table ES-1** summarizes the Phase I Assessment findings.

Table ES-1: Summary of Findings and Conclusions for Orchard MATES

Category	Total Number of Ranges and Acreage	Source(s)	Pathways(s)	Human and Ecological Receptors	Conclusions
Unlikely	Two operational ranges; 563 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.