

**FINAL
OPERATIONAL RANGE ASSESSMENT PROGRAM
PHASE I QUALITATIVE ASSESSMENT REPORT
VERNAL LOCAL TRAINING AREA
VERNAL, UTAH**

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.
2000 Powell Street, Suite 1180
Emeryville, California 94608

The logo for Malcolm Pirnie, Inc. consists of the words "MALCOLM" and "PIRNIE" stacked vertically in a bold, white, sans-serif font. The text is centered within a solid black rectangular background.

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 the Vernal Local Training Area (LTA) 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.

The Vernal LTA is located in Uintah County, Utah, about eight miles south of Vernal City. The 160-acre LTA consists of the northeast quarter of section 31, range 22E, township 5S. The Vernal LTA is used mainly by the Utah Army National Guard's Company B, 1457th Engineer Combat Battalion, which is based near Vernal, Utah. The LTA is used about 10 weekends per year for limited training activities related to heavy equipment and light maneuver exercises. Munitions used at the LTA include pyrotechnics and blank small arms ammunition. No live-fire or demolition training is conducted at the LTA.

The operational range at the Vernal LTA is categorized as Unlikely.

Unlikely – Five-Year Review

The single 160-acre operational training and maneuver range at the Vernal LTA is categorized as Unlikely. Ranges where, based upon a review of readily available information, there is sufficient evidence to show that there are no known releases or source-receptor interactions off-range that could present an unacceptable risk to human health or the environment are categorized as Unlikely. 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., in range operations, site conditions, regulations) 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 the Vernal Local Training Area

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Conclusions and Rationale
Unlikely	One operational range; 160 acres	Limited source – limited or no military munitions use	Not evaluated (limited source was identified)			Re-evaluate during the five-year review. Limited source was identified.

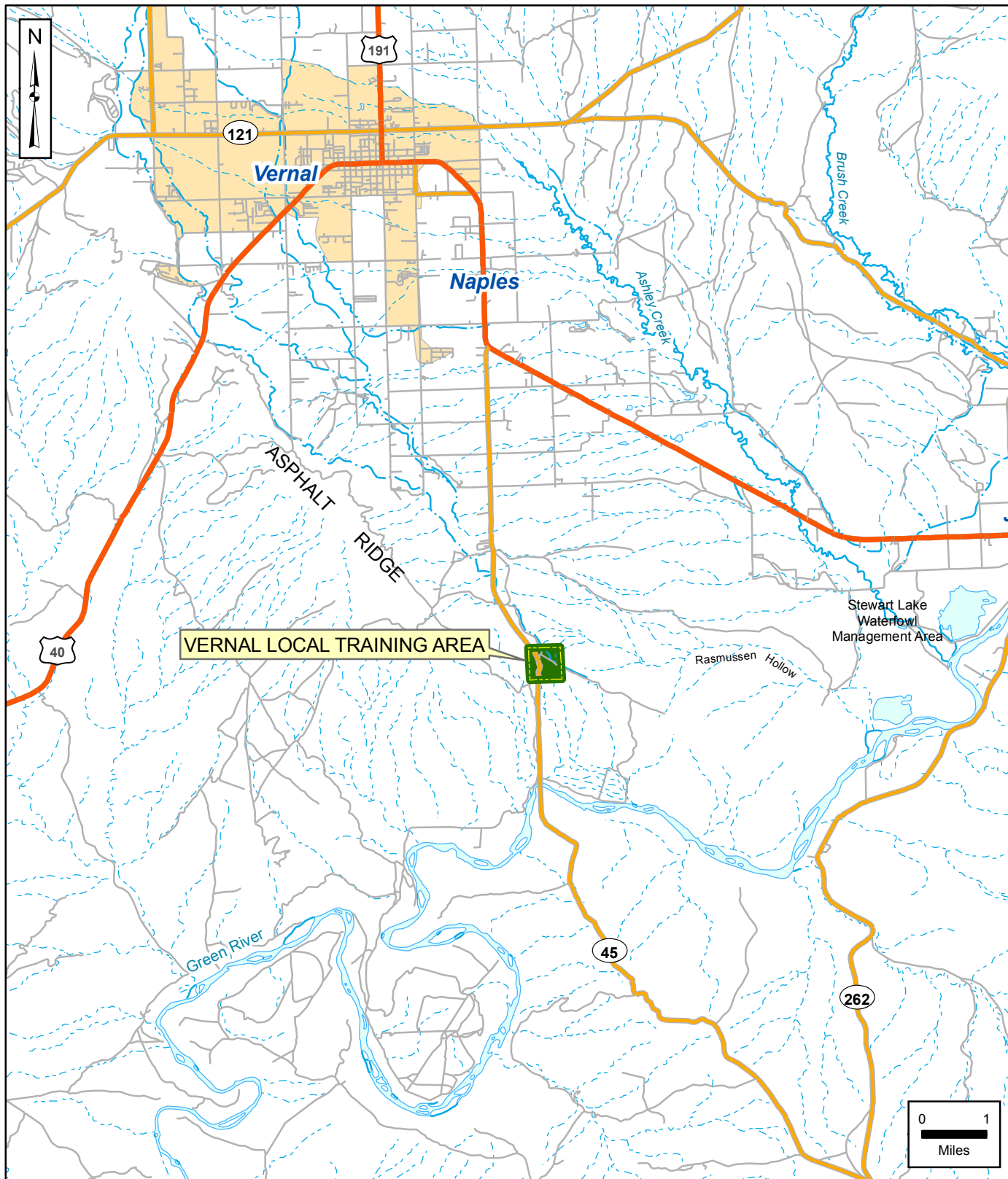
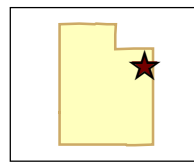
ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
CSM	Conceptual Site Model
DoD	Department of Defense
DODI	Department of Defense Instruction
E	Ecological receptors identified. (This refers to range grouping; pathway designation always precedes E designation.)
EA	Environmental Assessment
GIS	Geographic Information System
GW	Groundwater pathway identified. (This refers to range grouping; M designation always precedes GW designation.)
H	Human receptors identified. (This refers to range grouping; pathway designation always precedes H designation.)
LS	Limited Source
LTA	Local Training Area
M	Munitions used. (This refers to range grouping; M designation always precedes applicable pathway.)
MCOC	Munitions Constituents of Concern
MTA	Major Training Area
NGB	National Guard Bureau
OHV	Off-highway Vehicle
ORAP	Operational Range Assessment Program
PU	Pathway unlikely or incomplete. (This refers to range grouping; M designation always precedes PU designation.)
SITLA	School and Institutional Trust Lands Administration
SW	Surface water pathway identified. (This refers to range grouping; M designation always precedes SW designation.)
U.S.	United States
USACE	United States Army Corps of Engineers
USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
USAEC	United States Army Environmental Command
USEPA	United States Environmental Protection Agency
UT	Utah
UTARNG	Utah Army National Guard
°F	Degrees Fahrenheit



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**Operational Range Assessment Program
Phase I Qualitative Assessment
Vernal Local Training Area, UT
Figure 1-1
General Vernal Local Training Area Location**



Installation

- Installation Boundary
- Operational Area

Hydrology

- River/Stream (Perennial)
- Stream (Intermittent)
- Canal/Ditch
- Water Body

Transportation

- Highway
- Major Road
- Local Road
- Urbanized Area

Data Sources:

Utah National Guard, 2002
ESRI, StreetMap USA, 2005

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