

**FINAL
OPERATIONAL RANGE ASSESSMENT PROGRAM
PHASE I QUALITATIVE ASSESSMENT REPORT
LAKE SHELBYVILLE TRAINING AREA - WINDSOR
WINDSOR, ILLINOIS**

MARCH 2009

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 Lake Shelbyville Training Area (TA) - Windsor 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.

According to the Army Range Inventory Database-Geodatabase (2006), Lake Shelbyville TA - Windsor consists of one operational range (light training and maneuver area), which encompasses approximately 1,385.02 acres in Shelby County, Illinois. Owned by the Illinois Department of Natural Resources, Lake Shelbyville TA - Windsor is approximately five miles northwest of Windsor, Illinois.

Light maneuver training activities are conducted at Lake Shelbyville TA - Windsor. A review of available records and background data, as well as interviews with Illinois Army National Guard personnel, indicates that training activities at Lake Shelbyville TA - Windsor do not involve, and historically have not involved, the use of military munitions. Since no munitions have been used at Lake Shelbyville TA - Windsor, no potential sources of MCOC are present; therefore, potential off-range migration pathways and potential off-range human and ecological receptors were not evaluated. The training and maneuver area at Lake Shelbyville TA - Windsor is categorized as Unlikely.

Installations 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.

Table ES-1: Summary of Findings and Conclusions for Lake Shelbyville TA - Windsor

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human and Ecological Receptors	Conclusions
Unlikely	One operational range; 1,385.02 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.

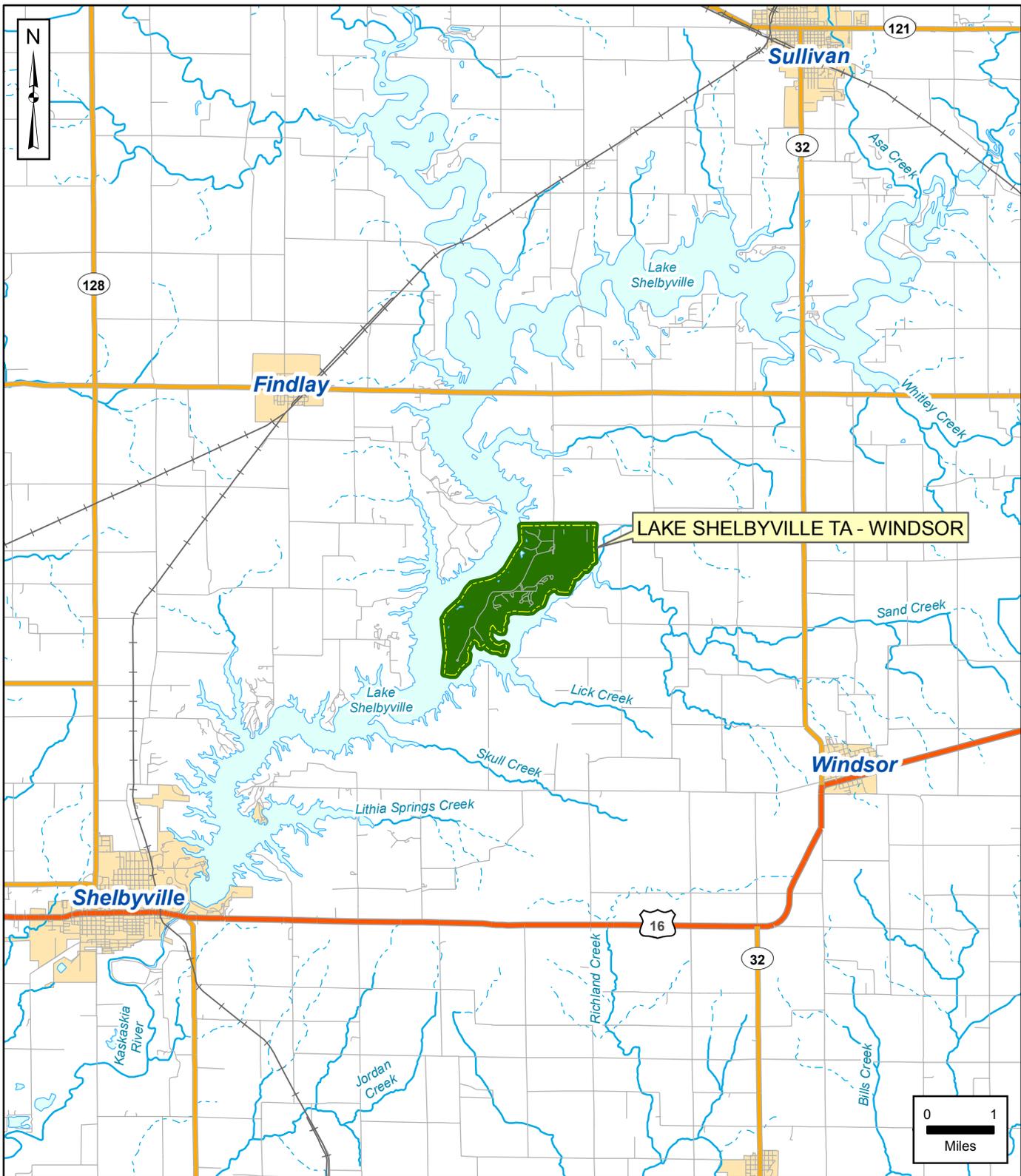
ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
CSM	Conceptual Site Model
DoD	Department of Defense
GIS	Geographic Information System
ILARNG	Illinois Army National Guard
ILDNR	Illinois Department of Natural Resources
JFHQ-IL	Joint Force Headquarters-Illinois
MCOC	Munitions Constituents of Concern
ORAP	Operational Range Assessment Program
TA	Training Area
U.S.	United States
USACE	United States Army Corps of Engineers



**MALCOLM
PIRNIE**

**Operational Range Assessment Program
Phase I Qualitative Assessment
Lake Shelbyville TA - Windsor, IL
Figure 2-1
Lake Shelbyville TA - Windsor
Location and Operational Range Area**



Installation

- Installation Boundary
- Operational Area

Hydrology

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

Transportation

- Highway
- Major Road
- Local Road
- Railroad

Administrative

- Urbanized Area

Data Sources:

AEC, ARID-GEO, 2006
ESRI, StreetMap USA, 2005

Date: March 2009
Prepared By: Malcolm Pirnie, Inc.
Prepared For: U.S. Army
Contract: W912DR-05-D-0004