

**FINAL  
OPERATIONAL RANGE ASSESSMENT PROGRAM  
PHASE I QUALITATIVE ASSESSMENT REPORT  
PEKIN CORRECTIONAL CENTER LOCAL TRAINING AREA  
PEKIN, ILLINOIS**

---

JANUARY 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:

**EARTH RESOURCES TECHNOLOGY, INC.**  
10810 Guilford Road, Suite 105  
Annapolis Junction, MD 20701



---

## 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 Pekin Correctional Center 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.

Pekin Correctional Center LTA is comprised of 68.26 acres in Tazewell County, Illinois. The LTA is located less than three miles southwest of Pekin City, on the grounds of Pekin Federal Correctional Institution owned by the Bureau of Prisons. According to the Army Range Inventory Database-Geodatabase from 2006, one maneuver and training range is present at Pekin Correctional LTA which encompasses the entire 68.26 acre LTA.

A review of available records and background data, as well as interviews with Illinois Army National Guard (ILARNG) personnel, indicate that the range at Pekin Correctional Center LTA has not been used for training involving military munitions (live-fire or non-live-fire). Pekin Correctional Center LTA was established as a light training area in 1996 (Department of Military Affairs, Illinois [DMAIL], 1996). Although the site is still active, according to ILARNG personnel, it has not been used for some time (Personal Communication, Plans, Operations and Training Officer, 2008). When in use, training occurs at the LTA approximately four times a year and is limited to the use of the Institution's rappelling tower and obstacle course (DMAIL, 1996). Because activities at the training site do not involve the use of munitions, there are no potential sources of MCOC present at Pekin Correctional Center LTA. Therefore, potential off-range migration pathways and potential off-range human and ecological receptors were not evaluated, and the single operational range at Pekin Correctional Center LTA has been 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 Pekin Correctional Center LTA**

Category	Total Number of Ranges and Acreage	Source(s)	Pathways(s)	Human and Ecological Receptors	Conclusions
Unlikely	One operational range; 68.26 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. No source was identified.

## ABBREVIATIONS/ACRONYMS

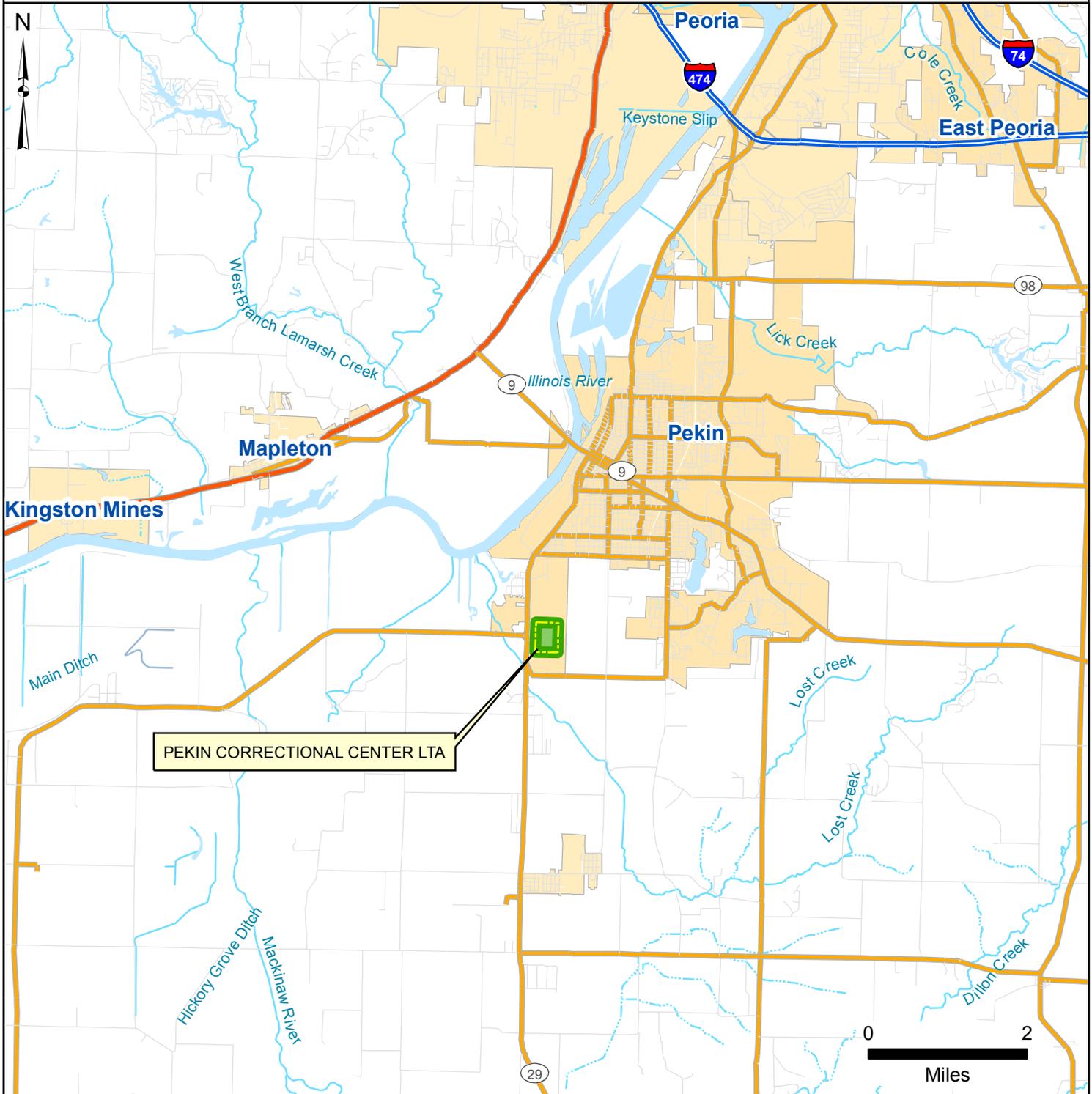
ARID-GEO	Army Range Inventory Database-Geodatabase
BOP	Bureau of Prisons
CSM	Conceptual Site Model
DMAIL	Department of Military Affairs, Illinois
DoD	Department of Defense
ERT	Earth Resources Technology, Inc.
GIS	Geographic Information System
ILARNG	Illinois Army National Guard
LTA	Local Training Area
MCOC	Munitions Constituents of Concern
ORAP	Operational Range Assessment Program
POTO	Plans, Operations, and Training Officer
REC	Record of Environmental Consideration
RFMSS	Range Facility Management Support System
U.S.	United States
USACE	United States Army Corps of Engineers



Operational Range Assessment Program  
Phase I Qualitative Assessment  
Pekin Correctional Center Local Training Area, IL



**Figure 2-1**  
**General Pekin Correctional Center Local Training Area**  
**Location and Operational Range Area**



**Installation**

- Installation Boundary
- Operational Range Area

**Roads**

- Interstate
- Highway
- Major Road
- Local Road

**Administrative**

- Urbanized Area

**Hydrology**

- River/Stream
- Waterbody

Data Sources:  
ARID-GEO, 2007  
ESRI, StreetMap USA, 2005

Date:.....January 2009  
Prepared By:.....ERT, Inc.  
Prepared For:.....U.S. Army  
Contract Number:.....W912DR-06-D-0002