



FINAL

Operational Range Assessment Program Phase I Qualitative Assessment Report Eastern Kentucky Gun Club, Kentucky U.S. Army Operational Range Assessment Program Qualitative Operational Range Assessments

Prepared for:

U.S. Army Environmental Command and
U.S. Army Corps of Engineers Baltimore District



Printed on
recycled
paper



AUGUST 2008



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 (ORAP). This Phase I Assessment evaluates the operational range area at Eastern Kentucky Gun Club 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.

Eastern Kentucky Gun Club occupies 44 acres of land in Boyd County, Kentucky. The facility is owned and operated by the Northeastern Kentucky Fish and Game Association. The West Virginia Army National Guard is allowed access to the facility for training through temporary land use agreements. The earliest range certification on record at the Joint Force Headquarters–West Virginia suggests the facility has been used since 1989.

The site consists of five operational ranges, including four small arms firing ranges, which are programmatically excluded, and one maneuver and training area, totaling 44 acres. Pyrotechnics/obscurants have been used in the maneuver and training area. However, the infrequent use and limited quantity of pyrotechnics/obscurants serves to limit the potential for MCOC migration off of the operational range at concentrations that may pose an unacceptable risk to human health or the environment.

The single operational range at Eastern Kentucky Gun Club is categorized as Unlikely

Unlikely – Five-Year Review

One range at Eastern Kentucky Gun Club, totaling 44 acres, is categorized as Unlikely. This range consists of a maneuver and training area. Based upon a review of readily available information, ranges where 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., 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 Eastern Kentucky Gun Club

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Conclusions and Rationale
Unlikely	1 operational range; 44 acres	No source—limited or no military munitions use		Not evaluated (no source identified)		Re-evaluate during the five-year review. No source was identified.

ABBREVIATIONS/ACRONYMS

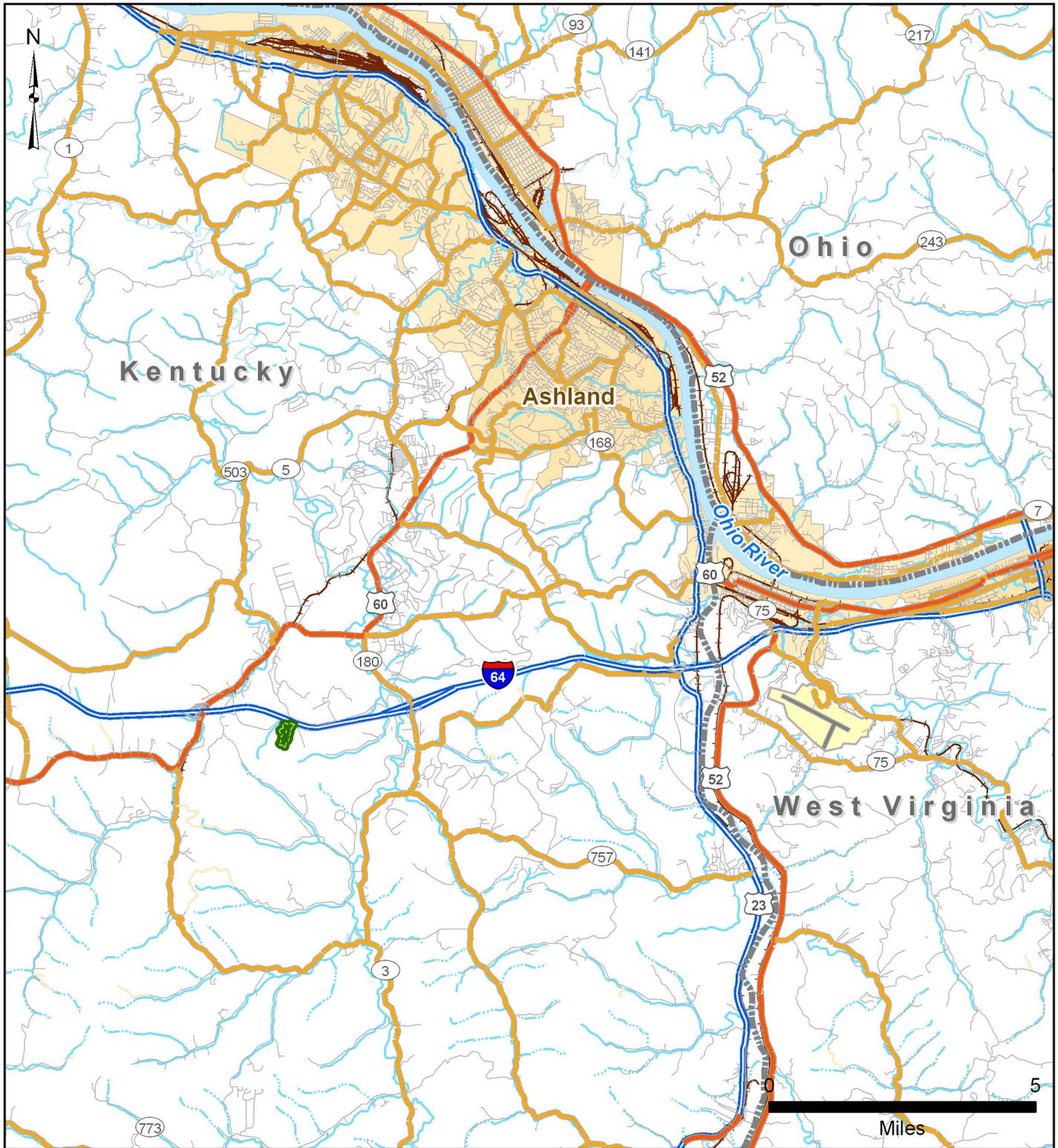
ARID-GEO	Army Range Inventory Database-Geodatabase
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	Conceptual Site Model
DoD	Department of Defense
DODI	Department of Defense Instruction
E	Ecological receptors identified. (This refers to range grouping; pathway designation always precedes E designation.)
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.)
JFHQ-WV	Joint Force Headquarters–West Virginia
KEPC	Kentucky Environmental and Protection Cabinet
KGS	Kentucky Geological Survey
LS	Limited Source
M	Munitions used. (This refers to range grouping; M designation always precedes applicable pathway.)
MCOC	Munitions Constituents of Concern
ORAP	Operational Range Assessment Program
PU	Pathway unlikely or incomplete. (This refers to range grouping; M designation always precedes PU designation.)
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
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WVARNG	West Virginia Army National Guard
°F	Degrees Fahrenheit



Operational Range Assessment Program
Phase I Qualitative Assessment
Eastern Kentucky Gun Club, KY



Figure 1-1
General Eastern Kentucky Gun Club Location



Installation ■■■ State Boundary
 Installation Boundary

Data Sources:
ESRI SreetMap 2005, KEPC 2006

Date:.....August 2008
 Prepared By: EA Engineering, Science & Technology
 Prepared For:..... U.S. Army
 Contract Number:..... W912DR-05-D-0008

H:\ORAP\619907\6\West Virginia\EasternKentuckyGunClub\GIS\Projects\Figure1-1.mxd