

**FINAL
OPERATIONAL RANGE ASSESSMENT PROGRAM
PHASE I QUALITATIVE ASSESSMENT REPORT
KEYSTONE LOCAL TRAINING AREA
GENEVA, PENNSYLVANIA**

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Prepared for:

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EXECUTIVE SUMMARY

PURPOSE:

This qualitative assessment, hereinafter referred to as Phase I Assessment, evaluates Keystone Local Training Area's (LTA) operational range area 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. The Phase I Assessment results in the categorization of operational ranges as appropriate, as follows:

- **Referred – Refer to Appropriate Cleanup Program:** Ranges with compelling evidence (e.g., sampling data) to indicate the presence of an off-range release that potentially poses an unacceptable risk to human health or the environment;
- **Inconclusive – Phase II Quantitative Assessment Required:** Ranges where existing information either is insufficient to make a source-receptor interaction determination or indicates the potential for such interaction to be occurring; or
- **Unlikely – Five-Year Review¹:** 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 that could present an unacceptable risk to human health or the environment based on a review of the information available.

SUMMARY OF FINDINGS:

To facilitate the qualitative analysis MCOC sources, potential migration pathways from a range, and potential off-range human and/or ecological receptors associated with the ranges at Keystone LTA were evaluated. Each range was then placed into one of several descriptive groups that meet the criteria for the Unlikely category.

The 12 operational ranges at the Keystone LTA that were included in the Phase I Assessment have been placed into the following category.

- **Unlikely** – Twelve ranges consisting of a small arms range, three firing ranges, and eight training and maneuver ranges totaling 454 acres.

These findings are summarized in **Table ES-1**.

¹ All operational ranges must be periodically re-evaluated to determine if there is a release or substantial threat of release of MCOC from an operational range to an off-range area. Range groups categorized as Unlikely are to be re-evaluated at least every five years. Re-evaluation may occur sooner if significant changes (e.g., changes in range operations, site conditions, and regulatory changes) occur that affect determinations made during the Phase I Assessment.

Table ES-1: Summary of Findings, Conclusions, and Recommendations for Keystone LTA

Category	Group Identification	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Recommendations (Future Steps)
Unlikely	Limited source	11 operational ranges, 452 acres	No source – limited or no military munitions use	Not evaluated	Not evaluated	Not evaluated	Re-evaluate during the five-year review. No source was identified.
	Munitions used; no pathways present	One operational range, 2 acres	Small arms berm	None	Not evaluated	Not evaluated	Re-evaluate during the five-year review. No pathway was identified.

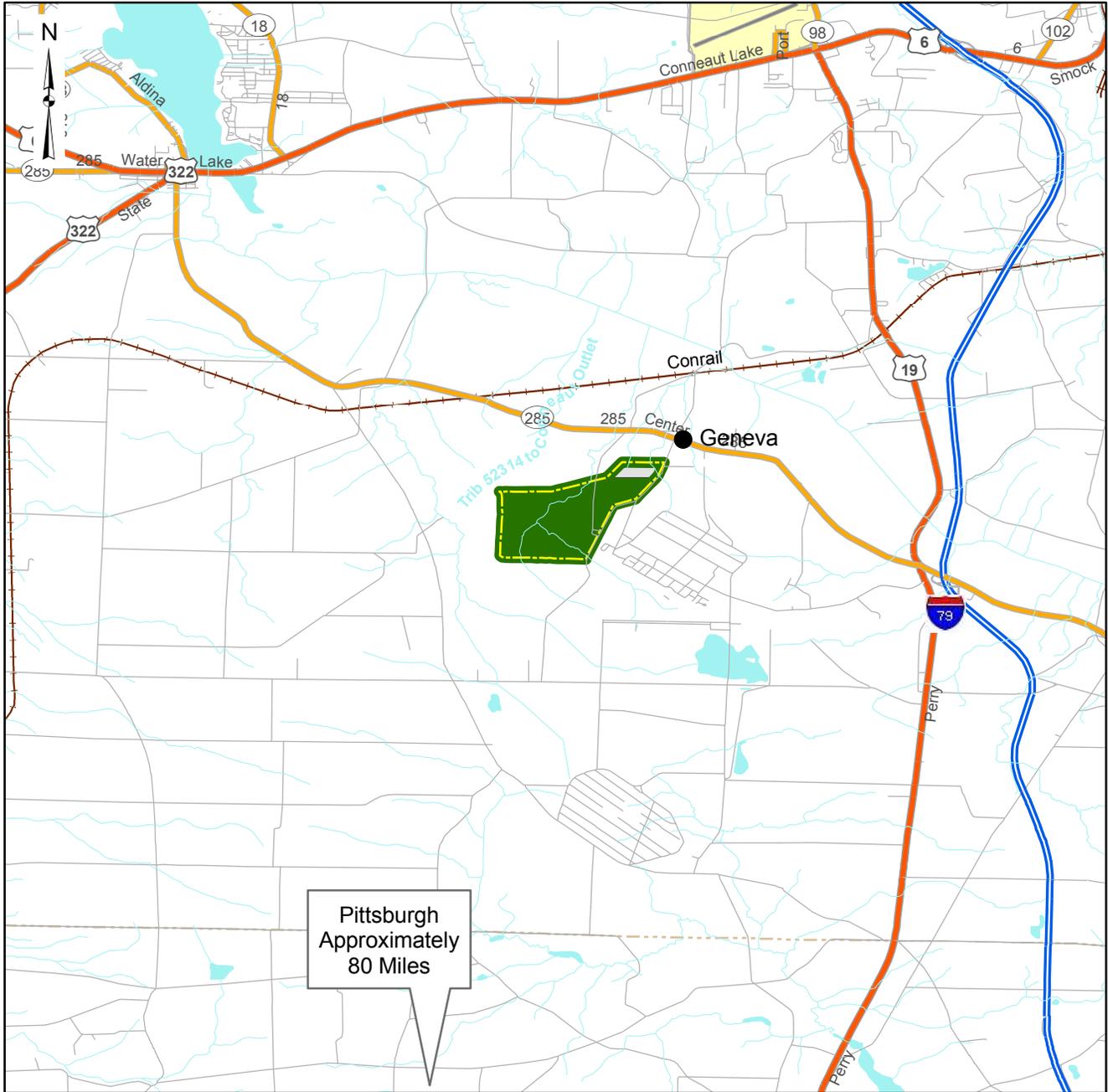
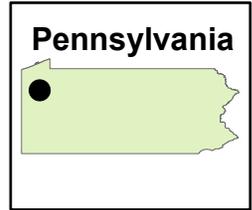
ABBREVIATIONS/ACRONYMS

amsl	above mean sea level
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
DoE	Department of Energy
F	Fahrenheit
H/E	Human/Ecological
KOW	Keystone Ordnance Works
LS	Limited or No Source Munition
LTA	Local Training Area
MCOG	Munitions Constituents of Concern
MGW	Munitions/Groundwater Pathway
MPU	Migration Pathway Unlikely
MSW	Munitions/Surface Water Pathway
MSWGW	Munitions/Surface Water and Groundwater
NWI	National Wetlands Inventory
ORAP	Operational Range Assessment Program
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
USAR	United States Army Reserve
U.S.C.	United States Code
USEPA	United States Environmental Protection Agency



Operational Range Phase I Qualitative Assessment Keystone LTA, PA

Figure 1-1
Installation Location



- Installation Boundary
- Operational Area
- Limited Access
- Highway
- Major Road
- Local Road
- Railroad
- Streams
- Lake



Data Sources:
ARID-GEO, 2004
ESRI Streetmap USA, 2005
PA Spatial Data Access

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