



FINAL

# Operational Range Assessment Program Phase I Qualitative Assessment Report Duffield Industrial Park, Virginia

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



Final Operational Range Assessment Program Phase I Qualitative Assessment Range Assessment Reports will be released beginning in March 2008 per the Direction of Army Headquarters. The cover page of this Report reflects the official finalization date. The date on subsequent pages/figures reflects the date upon which this document's conclusions are based.

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March 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. This Phase I Assessment evaluates the operational range area at Duffield Industrial Park Local Training Area (Duffield Industrial Park) 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.

Duffield Industrial Park is located in the city of Duffield in southwestern Virginia. The training site is located west of Route 23 and north of Route 58. The 75-acre training site area is contained within a larger, privately-owned industrial park. An access agreement has been established to allow the Virginia Army National Guard (VAARNG) to train at the site. The VAARNG use area includes two operational ranges: an engineer bridging site and a field training area.

A review of available records and background data, as well as an interview with training site personnel, indicate that the ranges at Duffield Industrial Park have never been used for training involving military munitions. Training currently conducted at Duffield Industrial Park is limited to field training exercises with medium to heavy equipment. Because training activities have never involved the use of military munitions, there are no potential sources of MCOC. Therefore, potential off-range migration pathways and potential off-range human and ecological receptors were not evaluated, and the ranges at Duffield Industrial Park are categorized as Unlikely.

Installations with operational ranges where no munitions, either live-fire or non-live-fire, 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 Duffield Industrial Park**

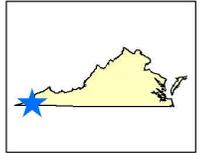
Category	Total Number of Ranges and Acreage	Source(s)	Pathways(s)	Human and Ecological Receptors	Conclusions
Unlikely	Two operational range; 75 acres	No source – no current or historical use of live-fire or non-live fire military munitions	Not evaluated (no source identified)		Re-evaluate during the five-year review

**ABBREVIATIONS/ACRONYMS**

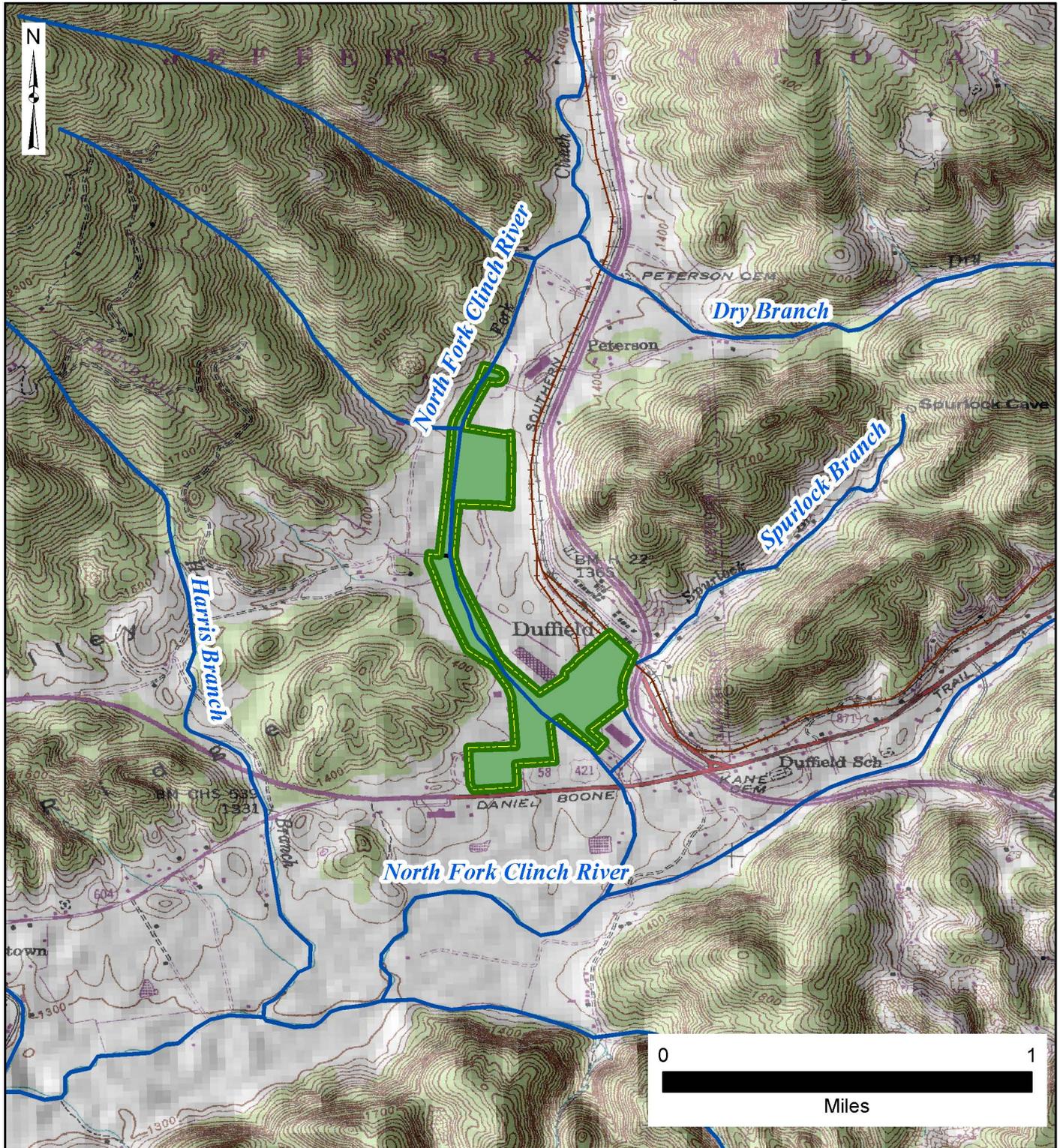
ARID-GEO	Army Range Inventory Database-Geodatabase
ARNG	Army National Guard
CSM	Conceptual Site Model
DoD	Department of Defense
GIS	Geographic Information System
MCOG	Munitions Constituents of Concern
ORAP	Operational Range Assessment Program
U.S.	United States
USACE	United States Army Corps of Engineers
VAARNG	Virginia Army National Guard



**Operational Range Assessment Program  
Phase I Qualitative Assessment  
Duffield Industrial Park, VA**



**Figure 2-1  
General Duffield Industrial Park Location and Operational Range Area**



**Legend**

- Installation Boundary
- Operational Range
- Surface Water

Data Sources:  
ESRI StreetMap USA 2005, ARID-Geo 2006

Date: ..... August 2007  
Prepared By: EA Engineering, Science & Technology  
Prepared For: ..... U.S. Army  
Contract Number: ..... W912DR-05-D-0008