



FINAL

Operational Range Assessment Program Phase I Qualitative Assessment Report River Road Training Site, Delaware

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



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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.)
LS	Limited Source
M	Munitions used. (This refers to range grouping; M designation always precedes applicable pathway.)
MCOC	Munitions Constituents of Concern
NG	Nitroglycerin
NGB	National Guard Bureau
NRCS	Natural Resources Conservation Service
ORAP	Operational Range Assessment Program
PU	Pathway unlikely or incomplete. (This refers to range grouping; M designation always precedes PU designation.)
RFMSS	Range Facility Management Support System
SW	Surface water pathway identified. (This refers to range grouping; M designation always precedes SW designation.)
TS	Training Site
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
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
°F	Degrees Fahrenheit

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 River Road Training Site (TS) 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.

River Road TS, formerly known as New Castle Rifle Range, is a 199-acre installation located in the city of New Castle, New Castle County, Delaware and is situated approximately 10 miles south of Wilmington. The 13 operational ranges at River Road TS include four small arms ranges, six maneuver/training areas, and three helipads, totaling 181.60 acres. The remaining 17.4 acres consist of non-operational areas. Small caliber munitions are currently, and were historically used at River Road TS. In addition, range activities may have included the use of Korean War-era large caliber practice munitions. Potential surface water and groundwater pathways exist and there are potential ecological receptors located down gradient; however, these receptors are unlikely to be affected due to the volume of water flowing in the Delaware River.

The 13 operational ranges at River Road TS are categorized as Unlikely.

Unlikely – Five-Year Review

The 13 operational ranges at River Road TS are categorized as Unlikely, totaling 181.60 acres. These ranges consist of four small arms ranges, six maneuver/training areas, and three helipads. 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 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 River Road Training Site

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Conclusions and Rationale
Unlikely	13 operational ranges; 181.60 acres	Small arms range firing lines, impact berms, and historical impact areas	Surface water and groundwater	None	Sensitive species and environments present in areas adjacent to the installation	Re-evaluate during the five-year review. The receptors identified are unlikely to be affected by potential MCOC due to the size and flow rate of the Delaware River.
		No source – limited or no military munitions use	Not evaluated (no source was identified)			Re-evaluate during the five-year review. No source was identified.