





FINAL

Operational Range Assessment Program Phase I Qualitative Assessment Report Hollis Plains Training Site, Maine

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





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 Hollis Plains 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.

Hollis Plains TS is a 408.18-acre installation located in the Town of Hollis, in York County, one-half mile northeast of North Hollis, Maine. The Maine Army National Guard (MEARNG) owned the property from 1967 to 1968. In 1969 the MEARNG transferred the property to the State of Maine. Use of the training facility decreased from mid 1980s through the 1990s and the TS has not been used regularly (less than 1 time per year) since the late 1990s. Army Range Inventory Database-Geodatabase (ARID-GEO) (2007) identifies a 2.61-acre inactive baffled firing range, and two maneuver and training areas totaling 405.57 acres. Historically, three additional ranges, including a pistol, rifle, and demolition training range were located at the installation.

The primary sources of MCOC identified at Hollis Plains TS are the impact berms associated with the inactive small arms firing range and historic rifle range, and target pits associated with the historic pistol range. In general, MCOC from these source areas potentially impact soil in the impact berms and target pits. However, the mitigating effects of on-range wetlands serve to limit the potential for MCOC migration to off-range areas. Furthermore, soils samples collected from both historic small arms ranges were non-detect or below state clean up criteria for lead. Therefore, it is unlikely that potential MCOC from these operational ranges would result in an unacceptable risk to human health or the environment.

The three operational ranges at Hollis Plains TS are categorized as Unlikely.

Unlikely – Five-Year Review

Three ranges at Hollis Plains TS are categorized as Unlikely, totaling 408.18 acres. These ranges consist of an inactive small arms range and maneuver and training areas. 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 Hollis Plains Training Site

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Conclusions and Rationale
Unlikely	3 operational range; 408.18 acres	No source – limited of no military munitions use	Not evaluat	ted (no MCOC source	was identified)	Re-evaluate during the five-year review. No source was identified.
		Inactive firing range	On-range wetlands to off- range wetlands	Recreational users of Little Ossipee River	Wetlands, state wildlife management areas, Atlantic salmon	Re-evaluate during the five-year review. Limited potential for off-range migration was identified.
		Historic firing ranges	On-range wetlands to off- range wetlands, surficial aquifer to off-range wetlands	Recreational users of Little Ossipee River and Killick Pond	Wetlands, state wildlife management areas, Atlantic salmon, eastern box turtles	Re-evaluate during the five-year review. Limited potential for off-range migration was identified.

ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase			
ATV	All-terrain vehicle			
bgs	Below ground surface			
BRAC	Base Realignment and Closure			
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act			
CRREL	Cold Regions Research and Engineering Laboratory			
CSM	Conceptual Site Model			
DNT	Dinitrotoluene			
	1 111 11 1			
DoD.	Department of Defense Instruction			
DODI	Department of Defense Instruction			
DU	Depleted Uranium			
Е	Ecological receptors identified. (This refers to range grouping; pathwa			
	designation always precedes E designation.)			
F	Fahrenheit			
GW	Groundwater pathway identified. (This refers to range grouping; M			
	designation always precedes GW designation.)			
Н	Human receptors identified. (This refers to range grouping; pathway			
	designation always precedes H designation.)			
HMX	Cyclotetramethylenetetranitramine			
ITAM	Integrated Training Area Management			
K-D	Known distance			
LS	Limited Source.			
M	Munitions used. (This refers to range grouping; M designation always			
	precedes applicable pathway.)			
MCOC	Munitions Constituents of Concern			
MDIFW	Maine Department of Inland Fisheries and Wildlife			
	Maine Department of Inland Fisheries and Wildlife Maine Army National Guard			
MDIFW	Maine Army National Guard			
MDIFW MEARNG	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division			
MDIFW MEARNG	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division of Environmental Health, Drinking Water Program			
MDIFW MEARNG MEDWP NEA	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division of Environmental Health, Drinking Water Program Northern Ecological Associates, Inc.			
MDIFW MEARNG MEDWP NEA NGB	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division of Environmental Health, Drinking Water Program Northern Ecological Associates, Inc. National Guard Bureau			
MDIFW MEARNG MEDWP NEA NGB NG	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division of Environmental Health, Drinking Water Program Northern Ecological Associates, Inc. National Guard Bureau Nitroglycerin			
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MDIFW MEARNG MEDWP NEA NGB NG NOAA NRCS	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division of Environmental Health, Drinking Water Program Northern Ecological Associates, Inc. National Guard Bureau Nitroglycerin National Oceanic and Atmospheric Administration Natural Resource Conservation Service			
MDIFW MEARNG MEDWP NEA NGB NG NOAA NRCS OB/OD	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division of Environmental Health, Drinking Water Program Northern Ecological Associates, Inc. National Guard Bureau Nitroglycerin National Oceanic and Atmospheric Administration Natural Resource Conservation Service Open Burn / Open Detonation			
MDIFW MEARNG MEDWP NEA NGB NG NOAA NRCS OB/OD ODEP	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division of Environmental Health, Drinking Water Program Northern Ecological Associates, Inc. National Guard Bureau Nitroglycerin National Oceanic and Atmospheric Administration Natural Resource Conservation Service Open Burn / Open Detonation Office of the Director of Environmental Programs			
MDIFW MEARNG MEDWP NEA NGB NG NOAA NRCS OB/OD ODEP ORAP	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division of Environmental Health, Drinking Water Program Northern Ecological Associates, Inc. National Guard Bureau Nitroglycerin National Oceanic and Atmospheric Administration Natural Resource Conservation Service Open Burn / Open Detonation Office of the Director of Environmental Programs Operational Range Assessment Program			
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MDIFW MEARNG MEDWP NEA NGB NG NOAA NRCS OB/OD ODEP ORAP PETN PU RDX RFMSS SW	Maine Army National Guard Maine Department of Environmental Health and Human Services, Division of Environmental Health, Drinking Water Program Northern Ecological Associates, Inc. National Guard Bureau Nitroglycerin National Oceanic and Atmospheric Administration Natural Resource Conservation Service Open Burn / Open Detonation Office of the Director of Environmental Programs Operational Range Assessment Program Pentaerythritoltetranitrate Pathway unlikely or incomplete. (This refers to range grouping; M designation always precedes PU designation.) Cyclotrimethylenetrinitramine Range Facility Management Support System Surface water pathway identified. (This refers to range grouping; M designation always precedes SW designation.)			
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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
USFWS	United States Fish and Wildlife Service
USGS	Unites States Geological Survey
WMA	Wildlife Management Area

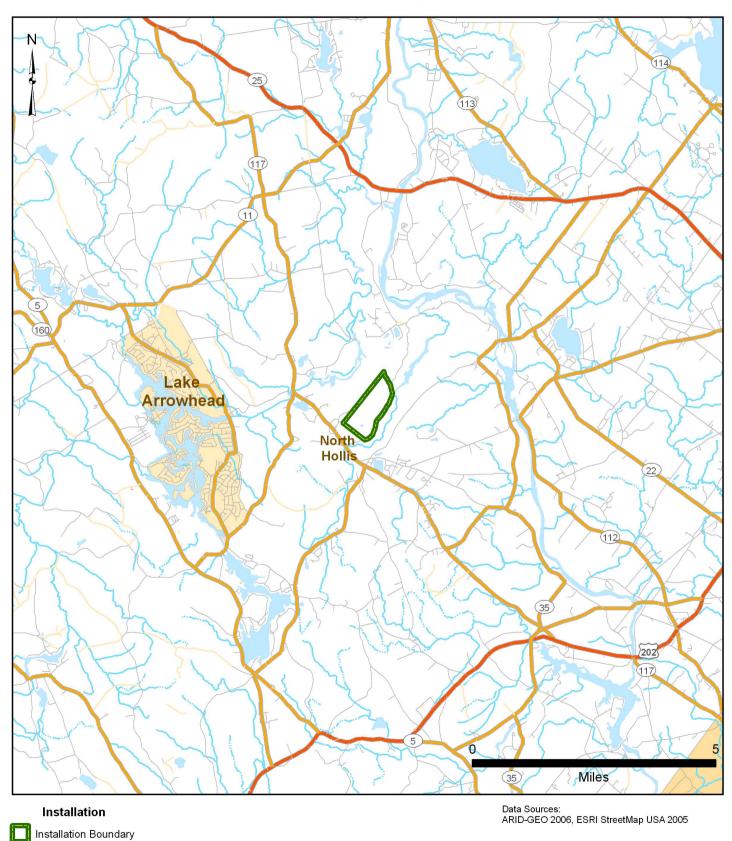




Operational Range Assessment Program Phase 1 Qualitatitive Assessment Hollis Plains Training Site, ME



Figure 1-1 General Hollis Plains Training Site Location



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