

**FINAL
OPERATIONAL RANGE ASSESSMENT PROGRAM
PHASE I QUALITATIVE ASSESSMENT REPORT
GARRISON LOCAL TRAINING AREA
GARRISON, NORTH DAKOTA**

APRIL 2008

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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 Garrison Local Training Area (LTA) 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.

Garrison LTA is located approximately eight miles southwest of Garrison, McLean County, North Dakota. The local training area is located on a singular peninsula overlooking Douglas Creek Bay along the northern shores of Lake Sakakawea. The area immediately surrounding the local training area is recreational in use and includes a wildlife management area and camping areas.

Garrison LTA was established in 1957 and has been used for military training with a consistent mission since the local training area was established. The local training area consists of a total of 764.76 acres. The Army Range Inventory Database-Geodatabase (ARID-GEO, 2006) identified one operational range at Garrison LTA. This one range covers the entirety of the local training area and is used as a maneuver and training area.

Due to the limited firing conducted at Garrison LTA over its history, the type of munitions used and the nature of the training (spread out over the entire facility), it is unlikely that MCOC are or have potential to migrate off range. There are no designated use areas or target/impact areas. No munitions have been used since 2003. There is unlikely to be a source from the limited and spread-out use of munitions at Garrison LTA.

Based on data collected during the Phase I Assessment regarding current and historical MCOC sources, potential pathways from ranges, and potential off-range human and/or ecological receptors, the one operational range at Garrison LTA has been placed in the following range grouping.

Unlikely – Five-Year Review

The one range at Garrison LTA is categorized as Unlikely. This range totals 764.76 acres and consists of a maneuver / training area. 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.

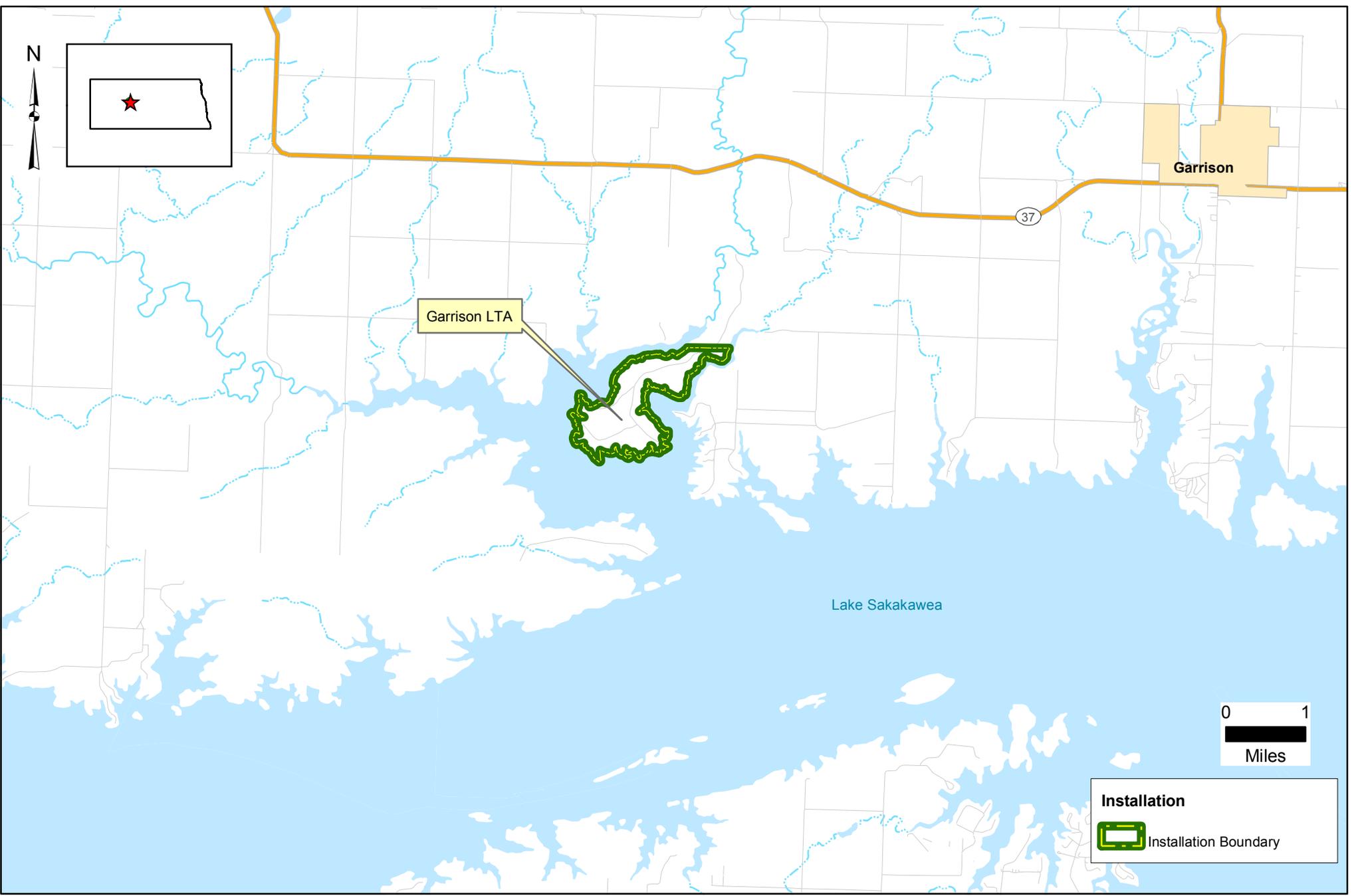
Table ES-1 summarizes the Phase I Assessment findings.

Table ES-1: Summary of Findings and Conclusions for Garrison LTA

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Conclusions and Rationale
Unlikely	1 operational range; 764.76 acres	Limited source – limited or no military munitions use	Not evaluated (limited source identified)			Re-evaluate during the five-year review. No source was identified.

ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
ARNG	Army National Guard
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.)
GIS	Geographic Information System
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-ND	Joint Force Headquarters – North Dakota
LS	Limited Source
LTA	Local Training Area
M	Munitions used. (This refers to range grouping; M designation always precedes applicable pathway.)
MCOC	Munitions Constituents of Concern
msl	Mean Sea Level
ND	North Dakota
NDARNG	North Dakota Army National Guard
NDSU	North Dakota State University
NG	Nitroglycerin
NGB	National Guard Bureau
NRCS	Natural Resource 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.)
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



**Operational Range Assessment Program
Phase I Qualitative Assessment
Garrison LTA, ND**

**Figure 1-1
General Garrison LTA Location**

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