

**FINAL
OPERATIONAL RANGE ASSESSMENT PROGRAM
PHASE I QUALITATIVE ASSESSMENT REPORT
WATERTOWN TRAINING AREA
WATERTOWN, SOUTH DAKOTA**

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Prepared for:

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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. This Phase I Assessment evaluates the operational range area at the South Dakota Army National Guard's Watertown Training 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. 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.

Watertown Training Area, with a total training area of 0.54 acres, is located approximately two miles northwest of Watertown, South Dakota, in Codington, County. An update to the Army Range Inventory Database-Geodatabase (ARID-GEO) was submitted to the U.S. Army Environmental Command in December 2005. The ARID-GEO (2005) identified one operational range area, which is eligible for the Phase I Assessment. The one operational range evaluated in this Phase I Assessment encompasses 0.54 acres. The total operational range area was derived from the Operational Use Area (total range area) acreage as reported in ARID-GEO (2005). All of the training area is identified as operational use area, and no portion of the training area is identified as other than operational area. The range at Watertown Training Area is a small arms range (ARID-GEO, 2005). Training activities generally include weapons qualification and familiarization.

The potential MCOC source identified at Watertown Training Area is the small arms backstop berm. The release mechanism for soil is erosion and potential runoff to off-range surface soil or to an off-range drainage ditch. Given the low precipitation (annual mean of 21.8 inches) and distance to the nearest surface water body (an intermittent stream located approximately 0.75 miles away), it is unlikely that potential MCOC could be transported off-range via storm water runoff and that potential MCOC were unlikely to reach potential human and ecological receptors present in and around the intermittent stream and in downstream waters.

The one operational range at Watertown Training Area is categorized as Unlikely.

Unlikely – Five-Year Review

The one range at Watertown Training Area is categorized as Unlikely, totaling 0.54 acres. It is a small arms range. 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 Watertown Training Area

Category	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Conclusions and Rationale
Unlikely	One operational range; 0.54 acres	Small arms backstop berm	None	Not evaluated (no pathway identified)		Re-evaluate during the five-year review. No pathway was identified.

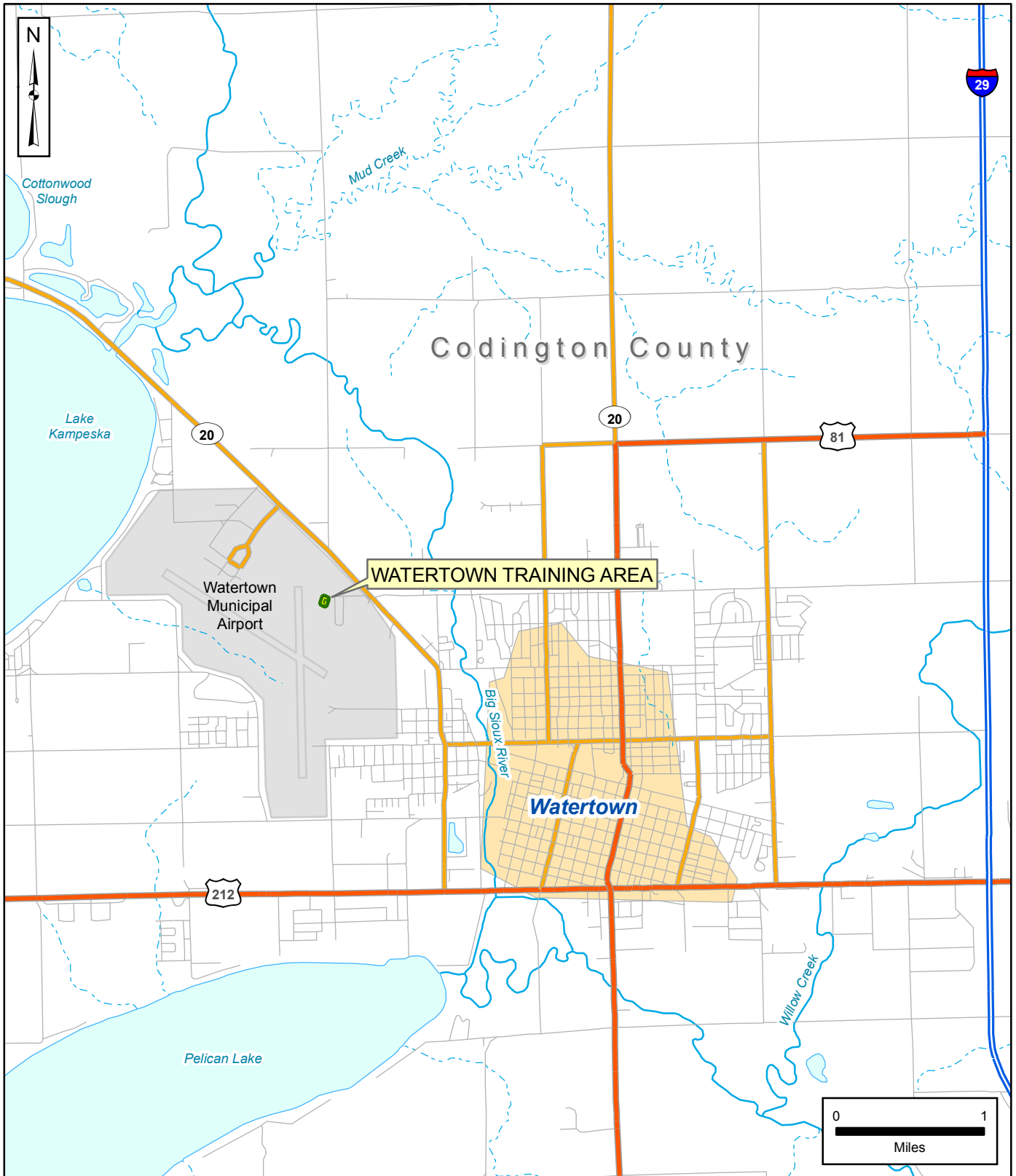
ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
bgs	Below Ground Surface
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.)
gpm	Gallons per Minute
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.)
HUC	Hydrologic Unit Code
LS	Limited Source
M	Munitions used. (This refers to range grouping; M designation always precedes applicable pathway.)
MCOC	Munitions Constituents of Concern
NG	Nitroglycerin
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
SDARNG	South Dakota Army National Guard
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
USGS	United States Geological Survey



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**Operational Range Assessment Program
Phase I Qualitative Assessment
Watertown Training Area, SD
Figure 1-1
General Watertown Training Area Location**



Installation

- Training Area Boundary
- Operational Area

Hydrology

- River/Stream (Perennial)
- Stream (Intermittent)
- Water Body

Transportation

- Interstate
- Highway
- Major Road
- Local Road

Administrative

- Urbanized Area
- Airport

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

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