FINAL OPERATIONAL RANGE ASSESSMENT PROGRAM PHASE I QUALITATIVE ASSESSMENT REPORT AUSTIN TRAINING PROPERTY UNION COUNTY, 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 (SDARNG's) Austin Training Property 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.

Austin Training Property is located in Union County, South Dakota, 15 miles west of Sioux City, Iowa, along the Missouri River. The SDARNG uses the property to train its soldiers in support of its various missions. The SDARNG's federal, state, and community missions include providing a reserve component of the Army of the United States, assisting government agencies during emergencies at the discretion of the governor, and providing support services to communities throughout South Dakota.

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) identifies two operational range areas on Austin Training Property, encompassing 391.40 acres; this information is not consistent with the current operational area identified by the SDARNG. The SDARNG identifies one operational range with a total operational range area of 388.47 acres (SDARNG Plans and Programs Office, N.d.). The SDARNG identifies all of the property as operational range area and identifies no portion as other than operational area. This Phase I Assessment addresses the operational range area identified by the SDARNG. The one operational range is a miscellaneous training range used for light maneuver training, bivouacking, and land navigation. Munitions use on the range is very limited and includes small arms blanks, pyrotechnics, and obscurants. The range has been used in the past for bridge placement training (ARID-GEO, 2005; AMEC, 2005).

No potential MCOC sources were identified at Austin Training Property since munitions use is very limited. Thus, the one operational range at Austin Training Property is categorized as Unlikely.

<u>Unlikely – Five-Year Review</u>

One range at Austin Training Property is categorized as Unlikely, totaling 388.47 acres. The range is a miscellaneous training facility. 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.

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Table ES-1: Summary of Findings and Conclusions for Austin Training Property

	Total Number of Ranges and Acreage	Source(s)	Pathway(s)	Human Receptors	Ecological Receptors	Conclusions and Rationale
Unlikely	One operational range; 388.47 acres	No source—limited military munitions use	Not evaluated (no source identified)			Re-evaluate during the five- year review. No source was identified.

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ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase	
asl	Above Sea Level	
bgs	Below Ground Surface	
CSM	Conceptual Site Model	
DoD	Department of Defense	
DODI	Department of Defense Instruction	
Е	Ecological receptors identified. (This refers to range grouping; pathway	
	designation always precedes E designation.)	
GIS	Geographic Information System	
gpm	Gallons per Minute	
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.)	
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	
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	PM United States Army Center for Health Promotion and Preventive Medicine	
USAEC	United States Army Environmental Command	
USEPA	United States Environmental Protection Agency	
°F	Degrees Fahrenheit	

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Property Boundary

Operational Area

River/Stream (Perennial)

Stream (Intermittent)

Canal/Ditch

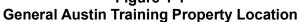
Water Body

Swamp/Marsh

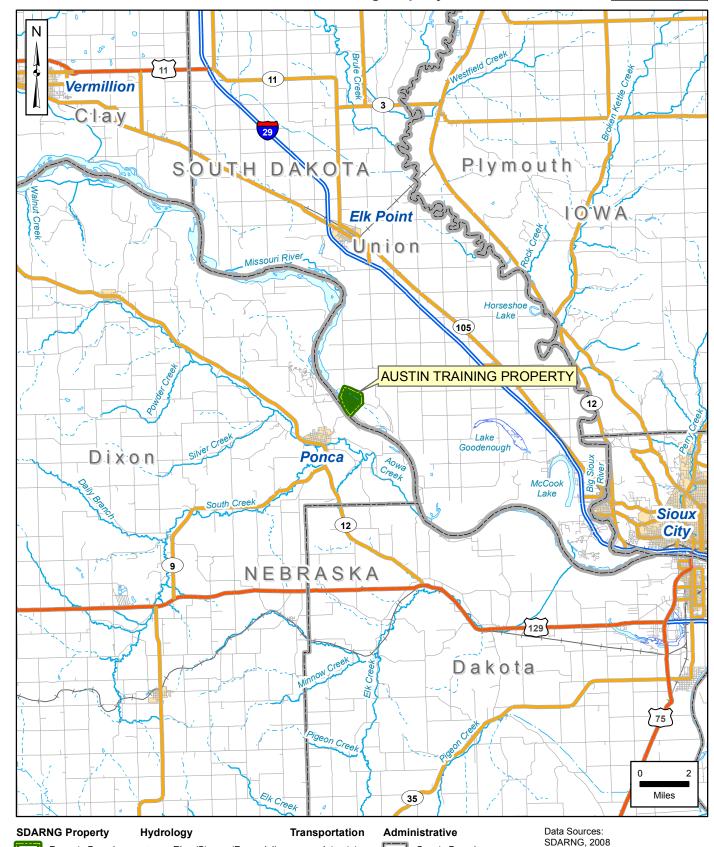


Operational Range Assessment Program Phase I Qualitative Assessment Austin Training Property, SD

Figure 1-1







Interstate

Highway

Major Road

Local Road

Railroad

County Boundary

State Boundary

Urbanized Area

ESRI, StreetMap USA, 2005

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