



FINAL

# Operational Range Assessment Program Phase I Qualitative Assessment Report WILCOX TRAINING SITE, ARIZONA

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



Final Operational Range Assessment Program Phase I Qualitative Assessment Range Assessment Reports will be released beginning in March 2008 per the Direction of Army Headquarters. The cover page of this Report reflects the official finalization date. The date on subsequent pages/figures reflects the date upon which this document's conclusions are based.

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March 2008



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## EXECUTIVE SUMMARY

### PURPOSE

This qualitative assessment, hereinafter referred to as the Phase I Assessment, evaluates Wilcox Training Site's operational range 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. The Phase I Assessment results in the categorization of operational ranges as appropriate, as follows:

- **Referred – Refer to Appropriate Cleanup Program:** Ranges with compelling evidence (e.g., sampling data) to indicate the presence of an off-range release that potentially poses an unacceptable risk to human health or the environment;
- **Inconclusive – Phase II Quantitative Assessment Required:** Ranges where existing information either is insufficient to make a source-receptor interaction determination or indicates the potential for such interaction to be occurring; or
- **Unlikely – Five-Year Review<sup>1</sup>:** 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 that could present an unacceptable risk to human health or the environment based on a review of the information available.

### SUMMARY OF FINDINGS

To facilitate the qualitative analysis, MCOC sources, potential migration pathways from a range, and potential off-range human and/or ecological receptors associated with the range at Wilcox Training Site were evaluated. The range was then placed into one of several descriptive groups that meet the criteria for the Unlikely category.

The single operational range at Wilcox Training Site that was included in the qualitative assessment was placed into the following category:

- **Unlikely** –The single range in this group covers 28,893 acres, the installation footprint.

These findings are summarized in **Table ES-1**.

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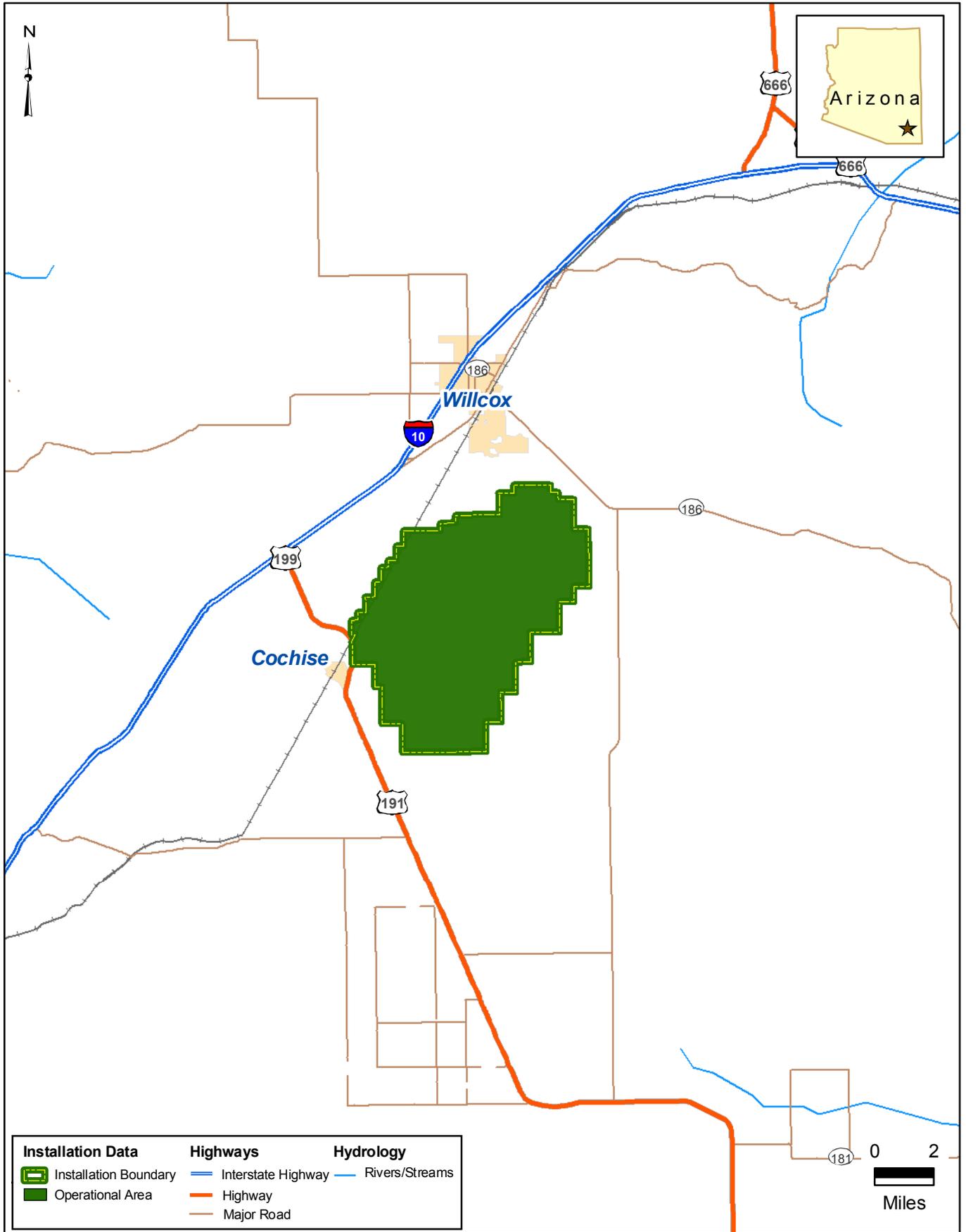
<sup>1</sup> All operational ranges must be periodically re-evaluated to determine if there is a release or substantial threat of release of MCOC from an operational range to an off-range area. Range groups categorized as Unlikely are to be re-evaluated at least every five years. Re-evaluation may occur sooner if significant changes (e.g., changes in range operations, site conditions, and regulatory changes) occur that affect determinations made during the Phase I Assessment.

**Table ES-1: Summary of Findings, Conclusions, and Recommendations for Wilcox Training Site**

Category	Group Identification	Total Number of Ranges and Acreage	Source(s)	Pathway(s)*	Human Receptors*	Ecological Receptors*	Recommendations (Future Steps)
Unlikely	Munitions used, pathway unlikely	One operational range; 28,893 acres	Historic munitions	Incomplete	Not evaluated	Not evaluated	Re-evaluate during the five-year review.
* Indicates the specific pathways of concern.							

## ABBREVIATIONS/ACRONYMS

ADEQ	Arizona Department of Environmental Quality
ADWR	Arizona Department of Water Resources
ARIA	Arizona Regional Image Archive
ARID-GEO	Army Range Inventory Geodatabase
ARNG	Army National Guard
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	Conceptual Site Model
DNT	Dinitrotoluene
DoD	Department of Defense
DODD	Department of Defense Directive
DODI	Department of Defense Instruction
DoE	Department of Energy
DPTMS	Directorate of Plans, Training, Mobilization, and Security
EPG	Electronic Proving Ground
ERIS	Environmental Restoration Information System
°F	Degrees Fahrenheit
ft	Feet
H/E	Human/Ecological
HMX	Cyclotetramethylenetetranitramine
in.	Inches
ITAM	Integrated Training Area Management
LS	Limited or No Source Munitions
MC	Munitions Constituents
MCOC	Munitions Constituents of Concern
MGW	Munitions/Groundwater/No Receptors
mm	Millimeter
MPU	Migration Pathway Unlikely
MSW	Munitions/Surface Water/No Receptor
MSWGW	Munitions/Surface Water and Groundwater
ORAP	Operational Range Assessment Program
PETN	Pentaerythritoltetranitrate
RDT&E	Research, Development, Testing, and Evaluation
RDX	Cyclotrimethylenetrinitramine
RFMSS	Range Facility Management Support System
TNT	Trinitrotoluene
U.S.	United States
USACE	United States Army Corps of Engineers
USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
U.S.C.	United States Code
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey



**Qualitative Operational Range Phase I Assessment  
Wilcox Training Site, AZ**

Figure 1-1  
General Location of  
Wilcox Training Site



Data Sources:  
ARID-GEO 24 Sept. 2001  
ESRI StreetMap USA, 2005

Date: September, 2006  
Prepared By: EA Engineering, Science, and Technology  
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