



FINAL

Operational Range Assessment Program Phase I Qualitative Assessment Report GILA BEND ELECTRONIC PROVING GROUND, 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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EXECUTIVE SUMMARY

PURPOSE

This qualitative assessment, hereafter referred to as Phase I Assessment, evaluates Gila Bend Electronic Proving Ground's (EPG) 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 Review¹:** 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

The single operational range at Gila Bend EPG has been placed into the following category:

- **Unlikely** – The one operational range at Gila Bend EPG consists of 635.27 acres.

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

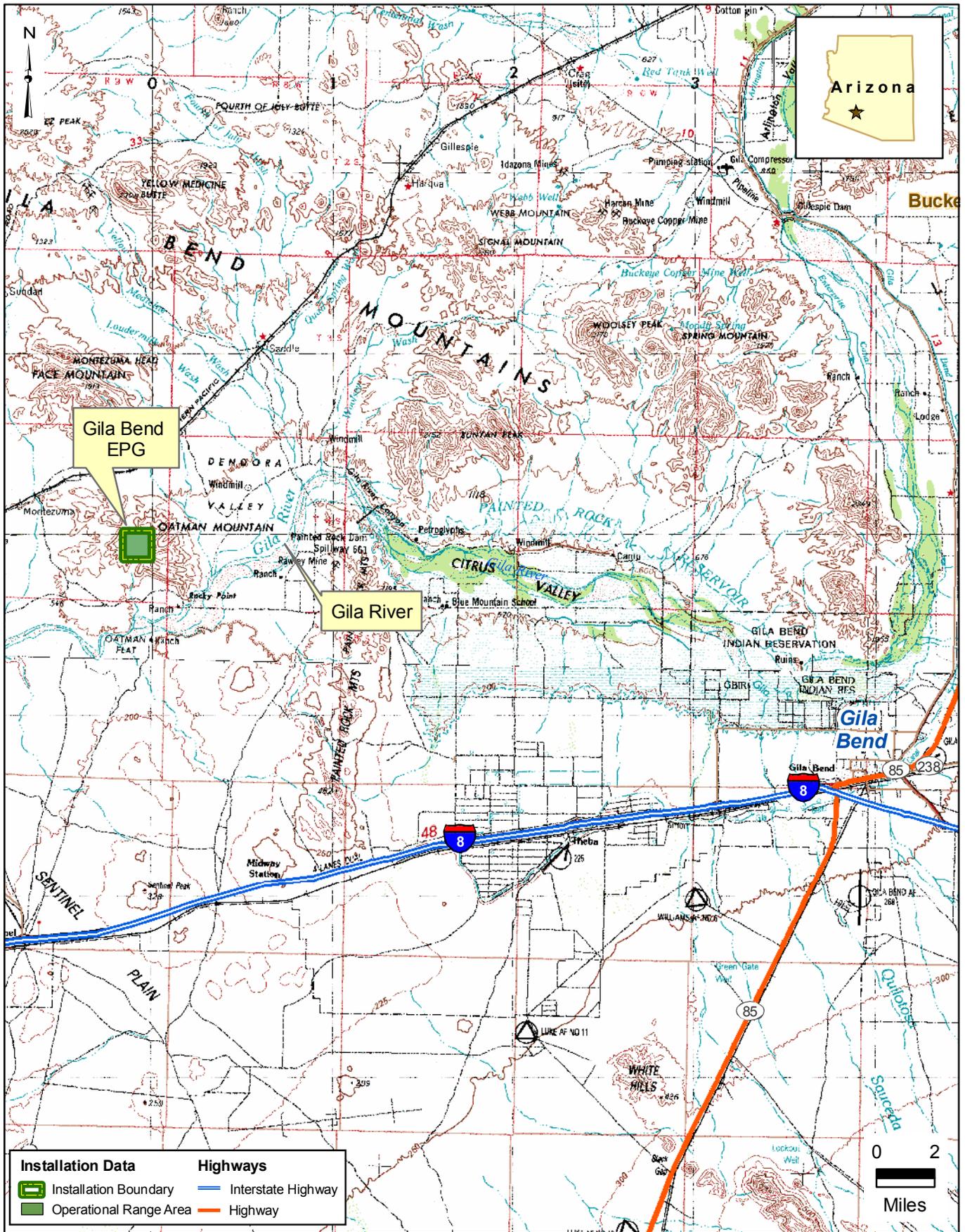
¹ All operational ranges must be periodically re-evaluated to determine if there is a release or substantial threat of release of MCOC from an operational range to an off-range area. Range groups categorized as Unlikely are to be re-evaluated at least every five years. Re-evaluation may occur sooner 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 Gila Bend EPG

Category	Group Identification	Total Number of Ranges and Acreage	Source(s)	Pathway(s)*	Human Receptors*	Ecological Receptors*	Recommendations (Future Steps)
Unlikely	Limited Source	One operational range; 635.27 acres	No source – no military munitions use	No further evaluation required	No further evaluation required	No further evaluation required	Re-evaluate during the five-year review.
* Indicates the specific pathways of concern.							

ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Geodatabase
ARNG	Army National Guard
AZGFD	Arizona Game and Fish Department
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	Conceptual Site Model
DNH	Desert Natural History
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
°F	Degree Fahrenheit
ft	Feet
HMX	Cyclotetramethylenetetranitramine
in.	Inch(es)
ITAM	Integrated Training Area Management
LS	Limited Source
MC	Munitions Constituents
MCOG	Munitions Constituents of Concern
MGW	Munitions, Groundwater
MGW (H/E)	Munitions, Groundwater (Human/Ecological)
mm	Millimeter
MPU	Munitions, Pathway Unlikely
MSW	Munitions, Surface Water
MSWGW	Munitions, Surface Water, Groundwater
MSWGW (H/E)	Munitions, Surface Water, Groundwater (Human/Ecological)
MSW (H/E)	Munitions, Surface Water (Human/Ecological)
NRCS	Natural Resources Conservation Service
ORAP	Operational Range Assessment Program
PETN	Pentaerythritoltetranitrate
RDT&E	Research, Development, Test, and Evaluation
RDX	Cyclotrimethylenetrinitramine
RFMSS	Range Facility Management Support System
T&E	Threatened and Endangered
TNT	Trinitrotoluene
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 Center
USAIC	United States Army Intelligence Center
U.S.C.	United States Code
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WRCC	Western Regional Climate Center



Qualitative Operational Range Phase I Assessment Gila Bend Electronic Proving Ground, AZ

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



Figure 1-1
Installation Location

Date: October, 2006
Prepared By: EA Engineering, Science, and Technology
Prepared For: U.S. Army
Contract Number: W912DR-05-D-0008