



# FINAL

## Operational Range Assessment Program Phase I Qualitative Assessment Report Pu'u Luahine Local Training Area, Moloka'i, Hawai'i 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



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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.



## **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 Pu'u Luahine 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.

Pu'u Luahine LTA is located just north of the town of Kaunakakai, Hawai'i, on the south-central coast of Moloka'i. This facility lies at the base of Moloka'i's east volcano and is paralleled by Highway 450. According to the Army Range Inventory Geodatabase (ARID-GEO, 2006), the facility is composed of two maneuver training ranges encompassing approximately 8,346.41 acres. Pu'u Luahine LTA, also known as Red Hill, was established in the 1980s, when the Marine Corps leased two parcels from the Department of Hawai'ian Homelands (DHHL) for training purposes. As recently as 2000, the land has been leased to the Hawai'i Army National Guard (HIARNG) for maneuver training (HIARNG, 2001).

A review of available records and background data as well as an interview with installation personnel indicate that the two ranges at Pu'u Luahine LTA have never been used for training involving military munitions (live-fire). Pu'u Luahine LTA is used by HIARNG for maneuver training of a 12-man sniper unit. The training activities involve small caliber blanks, which have no MCOC. Because training activities do not involve and historically have not involved the use of live-fire military munitions, there are no potential sources of MCOC. Therefore, potential off-range migration pathways and potential off-range human and/or ecological receptors were not evaluated, and the ranges at Pu'u Luahine LTA are categorized as Unlikely.

Installations with operational ranges where no munitions or only small caliber blanks have been utilized are categorized as Unlikely. That is, based on a review of available information, there is sufficient evidence to show that due to the lack of munitions use there are no known releases or source-receptor interactions that could present an unacceptable risk to human health or the environment. 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 Pu'u Luahine LTA**

Category	Total Number of Ranges and Acreage	Source(s)	Pathways(s)	Human and Ecological Receptors	Conclusions
Unlikely	Two operational ranges; 8,346.41 acres	No source – no current or historic use of military munitions (live-fire)	Not evaluated (no source identified)		Re-evaluate during the five-year review

## ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Geodatabase
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CRAMP	Coral Reef Assessment and Monitoring Program
CSM	Conceptual Site Model
DAR	Division of Aquatic Resources
DHHL	Department of Hawai'ian Homelands
DLNR	Department of Land and Natural Resources
DoD	Department of Defense
DODD	Department of Defense Directive
DODI	Department of Defense Instruction
ERIS	Environmental Restoration Information System
HIARNG	Hawai'i Army National Guard
ITAM	Integrated Training Area Management
LTA	Local Training Area
MCOG	Munitions Constituents of Concern
ORAP	Operational Range Assessment Program
ORIS	Operational Range Inventory Sustainment
TESS	Threatened and Endangered Species System
TIC	Technical Information Center
U.S.	United States
USACE	United States Army Corps of Engineers
USAEC	United States Army Environmental Command
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	U.S. Geological Survey



**Operational Range Assessment Program**  
**Phase I Qualitative Assessment**  
**Pu'u Luahine Local Training Area, Moloka'i, HI**  
 Figure 2-1  
 General Facility Location and Operational Range Area



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

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