



FINAL

Operational Range Assessment Program
Phase I Qualitative Assessment Report
Waiawa Gulch Armory, O'ahu, 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.



ABBREVIATIONS/ACRONYMS

ARID-GEO	Army Range Inventory Database-Geodatabase
CSM	Conceptual Site Model
DoD	Department of Defense
HIARNG	Hawai'i Army National Guard
MCOG	Munitions Constituents of Concern
ORAP	Operational Range Assessment Program
U.S.	United States
USACE	United States Army Corps of Engineers

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 Waiawa Gulch Armory 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.

Waiawa Gulch Armory is comprised of 22.21 acres of land located approximately 13 miles northwest of Honolulu, Hawai'i. Based on available Army Range Inventory Database-Geodatabase (ARID-GEO) data (dated 30 November 2005), Waiawa Gulch Armory consists of a single 15.15-acre operational range that is used by the Hawai'i Army National Guard (HIARNG) units as a wheeled-vehicle drivers' course. The remaining 7.06 acres are considered a non-operational use area. Throughout its history, the facility has consistently been used for vehicle and equipment storage, organizational maintenance and support, and as a training site for these operations.

A review of available records and background data as well as interviews with installation personnel indicates that the single range at Waiawa Gulch Armory has never been used for training involving military munitions (live-fire or non-live-fire). As such, no potential sources of MCOC exist at Waiawa Gulch Armory.

A review of available records and background data, as well as interviews with installation personnel, indicated that the single range at Waiawa Gulch Armory has never been used for training involving military munitions (live-fire or non-live-fire). Because training activities do not involve, and historically have not involved, the use of military munitions, there are no potential sources of MCOC. Therefore, potential off-range migration pathways and potential off-range human and ecological receptors were not evaluated, and the range at Waiawa Gulch Armory is 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 Waiawa Gulch Armory

Category	Total Number of Ranges and Acreage	Source(s)	Pathways(s)	Human and Ecological Receptors	Conclusions
Unlikely	One operational range; 15.15 acres	No source—no current or historical use of live-fire military munitions	Not evaluated (no source identified)		Re-evaluate during the five-year review.