

FINAL Operational Range Assessment Program Phase I Qualitative Assessment Report Dillingham Military Reservation, Hawai'i U.S. Army Operational Range Assessment Program Qualitative Operational Range Assessments

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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

Army Range Inventory Geodatabase					
Army National Guard					
Biologically Significant Area					
Comprehensive Environmental Response, Compensation, and Liability Act					
Conceptual Site Model					
Dinitrotoluene					
Dillingham Military Reservation					
Department of Defense					
Department of Defense Directive					
Department of Defense Instruction					
Department of Defense instruction Department of Energy					
Directorate of Plans, Training, Mobilization and Security					
Environmental Impact Statement Environmental Restoration Information System					
Fahrenheit					
Forward Arming and Refueling Point					
Foot or Feet					
Geographic Information System					
Human/Ecological					
Hawai'i Natural Heritage Program					
Cyclotetramethylenetetranitramine					
Integrated Natural Resource Management Plan					
Integrated Wildland Fire Management Plan					
Integrated Training Area Management					
Limited or No Source Munition					
Munitions Constituents of Concern					
Munitions/Groundwater Migration Pathway					
Millimeter					
Migration Pathway Unlikely					
Munitions/Surface Water Migration Pathway					
Munitions/Surface Water and Groundwater Migration Pathway					
Operational Range Assessment Program					
Pentaerythritoltetranitrate					
Cyclotrimethylenetrinitramine					
Range Facility Management Support System					
Technical Information Center					
Trinitrotoluene					
United States					
United States Army Corps of Engineers					
United States Army Center for Health Promotion and Preventive Medicine					
United States Army Environmental Center					
25 th Infantry Division (Light) [ID(L)] and U.S. Army, Hawai'i					
United States Code					
United States Code United States Environmental Protection Agency United States Fish and Wildlife Service					

EXECUTIVE SUMMARY

PURPOSE

This qualitative assessment, hereinafter referred to as Phase I Assessment, evaluates Dillingham Military Reservation's (DMR) 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

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 ranges at DMR were evaluated. Each range was then placed into one of several descriptive groups that meet the criteria for the Unlikely category.

The four operational ranges at DMR that were included in the qualitative assessment have been placed into the following category:

• Unlikely – A total of four ranges consisting of maneuver training areas and a fixed wing airstrip totaling 599.64 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.

Category	Group Identification	Total Number of Ranges and Acreage	Source(s)	Pathway(s)*	Human Receptors*	Ecological Receptors*	Recommendations (Future Steps)	
Unlikely	Limited Source	Four operational ranges; 599.64 acres	Limited source – limited or 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.								

Table ES-1: Summary of Findings, Conclusions, and Recommendations for Dillingham Military Reservation