



The **Hazard Evaluation and Emergency Response (HEER) Office** is part of the Hawai'i Department of Health's Environmental Health Administration whose mission is to protect human health and the environment. The HEER Office provides leadership, support, and partnership in preventing, planning for, responding to, and enforcing environmental laws relating to releases or threats of releases of hazardous substances.

## Explosives Safety Guidance to Help Protect You from Munitions Hazards in the Waikoloa Maneuver Area (WMA)

available online at <https://health.hawaii.gov/heer/files/2019/11/WMAAEHMP.pdf>



*Examples of Unexploded Ordnance (UXO) found at Waikoloa Maneuver Area*

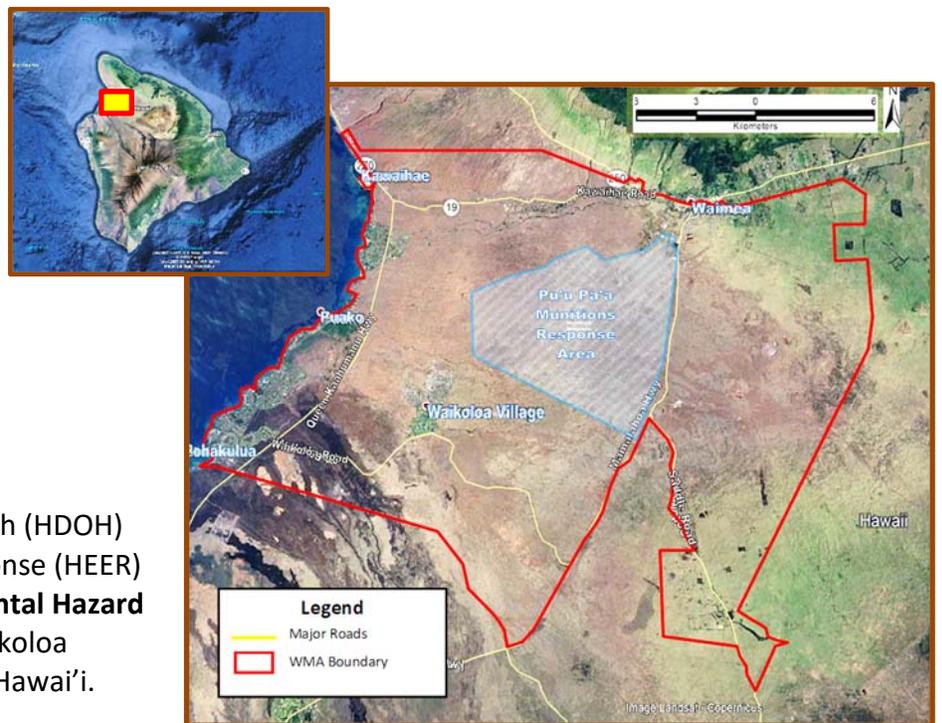
In 2019, the Hawaii Department of Health (HDOH) Hazard Evaluation and Emergency Response (HEER) Office released an **Areawide Environmental Hazard Management Plan (AEHMP)** for the Waikoloa Maneuver Area (WMA) on the Island of Hawai'i.

The purpose of the AEHMP is to address the risk of explosive hazards from Unexploded Ordnance (UXO) present in the area from historic military use during World War II and to provide UXO safety guidance for construction and development projects within the WMA.

### ***What's in the AEHMP?***

#### **The following is a summary of the WMA AEHMP Guidelines:**

- Within the WMA, even areas that have been previously cleared by the U.S. Army Corps of Engineers (USACE) have a 'residual risk' of UXO, due to limitations of technology and other factors. Therefore, **all areas** within the WMA present a potential UXO exposure and explosive hazard to users of the property.



*Location of WMA on the Island of Hawai'i*



- Property owners in the WMA should inform all users of their property (visitors, tenants, landscapers, etc.) of the potential danger presented by the presence of UXO and inform them of the “3Rs” of UXO Safety; “Recognize” UXO are dangerous, “Retreat” – do not pick up the item, move to safety, and “Report” the item by calling 911.
- When developing within the WMA, use ‘UXO Construction Support’ provided by a Department of Defense Explosives Safety Board (DDESB)-Certified UXO Contractor to further reduce your risk of exposure to UXO. This is particularly important when excavating for a pool or septic tank or re-grading a property, but it is also important for small projects like installing a fence or planting a tree.
- For large-scale projects, such as a housing development or shopping center, the property owner should work with HDOH to prepare a Site-Specific EHMP (SSEHMP) to help ensure the protection of their workers and the public from UXO during and after the construction process.
- Soil from properties in the WMA must be managed during development to prevent inadvertent transport of UXO from one area to another, or to properties outside of the WMA. Soil should be excavated in 1-foot lifts using UXO Construction Support, and any soil removed from the property should be sifted and/or re-scanned by the UXO Contractor. The AEHMP includes a **Soil Management Plan Reporting Form** to document soil excavation and disposal.
- When selling or leasing a property, the owner must inform the new owner/occupant of potential UXO hazards and provide them with the information in the AEHMP and any SSEHMP.
- The property owner should provide USACE with Rights-of-Entry (ROEs) to allow them free access to complete their investigations on the property, and use USACE as a resource for pamphlets, information, and signage that can be shared with property users to inform them of UXO hazards.
- In addition to calling 911 to report suspect UXO items, use the **UXO Report Form** provided in the AEHMP to inform HDOH and USACE when UXO are identified on your property.

### Where can I find the AEHMP?

The AEHMP is available online at <https://health.hawaii.gov/heer/files/2019/11/WMAAEHMP.pdf>

Note: Use of this AEHMP is voluntary unless otherwise required under an agreement between the landowner and HDOH

### Further Information

**For questions related to UXO, contact:**

Hawai'i Department of Health  
 Hazard Evaluation and Emergency Response Office  
 2385 Waimano Home Road #100  
 Pearl City, Hawai'i 96782

Telephone: (808) 586-4249  
 Website: <https://health.hawaii.gov/heer>

**WMA Remediation Project Manager (RPM):**

Sven Lindstrom: [sven.lindstrom@doh.hawaii.gov](mailto:sven.lindstrom@doh.hawaii.gov)

**Observe the “3Rs” of  
 UXO Safety and Reporting:  
 Recognize...Retreat...Report!**

