



## Environmental Ordnance and Explosives

**Client**  
Spain Ministry of Defense

**Location**  
Larca, Spain

## Carraclaca Range UXO Site Assessment and Investigation

### Key Tasks

- Establish GIS and Administrative Record
- Perform Records Search and Review Government-Provided Archival Information
- Conduct Interviews
- Develop Initial Risk Assessment
- Develop and Execute Abbreviated Site Safety and Health Plan (ASSHP)
- Perform Site Assessment
- Perform Risk Assessment Based on the PA/SI
- Provide PA/SI Report



### Project Overview

CH2M HILL was competitively selected by Spain's Ministry of Defense (MOD), Director General of the Infrastructure, from a pre-qualified pool of two U.S. contractors and one Spanish contractor that have had previous OE experience. The contract required that a PA/SI of the Carraclaca Range be performed using policy developed by the Huntsville Corps of Engineers Ordnance Explosives - Center of Excellence (OE-CX). Carraclaca Range is located near Larca, Spain, and was an active Army training range until closed in 1997. Carraclaca Range consists of a primary impact area with multiple target areas, firing points and surrounding safety zones encompassing 1,200 acres. It has been used for more than 50 years by the MOD as a range for artillery and small arms fire.

Multiple UXO were discovered during the site visit and reported to MOD officials for execution of a military explosive ordnance disposal (EOD) emergency response. Results of the PA/SI recommended institutional controls of warning signs and fencing until a non-time critical removal action (NTCRA) can be executed.

### Significant Accomplishments

- An abbreviated site safety and health plan was developed and executed for a site investigation to confirm the existence of UXO contamination.
- Carraclaca Range UXO PA/SI is the first environmental project conducted by the Spanish government utilizing policy developed by the U.S. Huntsville Corps of Engineers as depicted in ER 1110-1-4009 and interim guidance documents.

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- Identification of UXO resulted in the Spanish MOD classifying Carraclaca Range with a risk assessment code (RAC) of RAC II, requiring a priority cleanup.