




Contact Us

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Preliminary UXO Risk Assessment

Client Groundsure Ltd
Report Ref. No. GS Sample
Date 08/11/2023

Project Name	Sample site
	
Site Address	Sample site
Centre Point NGR	

Introduction

The purpose of the *Stage 1 Preliminary Risk Assessment* is a qualitative screening exercise to assess the potential of finding unexploded ordnance (UXO) at a site. The process requires the consideration of the basic factors that affect the potential for UXO to be present at a site and the likelihood for any hazard to occur.

The aim of the preliminary assessment is to identify or discount the need for further detailed research (in the form of a *Stage 2 Detailed Risk Assessment*) to be conducted, to further clarify the risk from UXO.

The Preliminary Risk Assessment uses the sources of information available to Igne in-house, to place a development in context with domestic military and conflict history.

This assessment has been produced in accordance with the CIRIA C681 Guidelines: *Unexploded Ordnance, a Guide for the Construction Industry, 2009*.

The report will assess the following:

- Extent of Proposed Intrusive Works
- Conflict History / Enemy Actions
- Domestic Aerial, Naval and Land-Based Military Activity
- Consideration of any Risk Mitigating Factors

The assessment is intended as a common sense 'first step' in the UXO risk management process.

Site Information	
Site Description	The site comprises an area of agricultural open ground within its eastern section. The western section of the study area is occupied by the Sizewell Rail Sidings. A small area of dense vegetation is present within the north-west extent of the site.
Scope of Proposed Works	None provided.

Historical site conditions	
Ground conditions during WWII	The site was occupied by open ground adjacent to <i>Crown Farm</i> during WWII. A railway line ran alongside the western boundary of the study area.
Degree of access during WWII	<ul style="list-style-type: none"> • Agricultural land likely to have received irregular / seasonal access. • Railway line on site also likely to have been infrequently accessed.

Aerial bombing & air delivered UXO	
Enemy action during WWII	<ul style="list-style-type: none"> • Low to moderate bombing density. • 55 air raids were recorded over the surrounding area. • Opportunistic bombing target within the surrounding area (RAF Leiston, 2.7km north-west). • Anecdotal evidence of bombing incidents in proximity to the site.

Military activity & Allied UXO	
Historic military installations (distances approximate)	<ul style="list-style-type: none"> • Dunwich military training area – 280m north. • Closest emplacement – Gun post approximately 150m west. • Anti-glider ditches – adjacent to the site's southern extent. • Beach minefields – 1.6km east. • HAA battery – 1.8km south-east. • Multiple defensive emplacements located within a 5km radius of the site.

Post-WWII local UXO encounters	
Items found nearby	<ul style="list-style-type: none"> • In the course of recent survey operations in the Sizewell area, Igne has uncovered a substantial number of UXO of various types and sizes. As a result, there is a possibility that similar devices may be present in the surrounding vicinity.

Post-WWII risk mitigating factors	
Post-WWII redevelopment and clearance works	<ul style="list-style-type: none"> • Agricultural land has remained undeveloped post-WWII. • Sidings constructed on site post 1950s. • Hard standing and temporary buildings present in the western section of the site.

Conclusions	
<ul style="list-style-type: none"> • The Sizewell area suffered multiple opportunistic bombing raids during WWII. During these raids, the site may have been affected, with anecdotal accounts indicating bombing incidents close in proximity to the site. The site comprised agricultural, open ground which had the potential to conceal evidence of a UXB. Further research is required to determine the likelihood of contamination from German air dropped UXO. • Furthermore, Sizewell had a significant military presence, including defensive emplacements and ranges. In addition, several recent UXO finds have been discovered within the surrounding area. As such, the likelihood of contamination from British / Allied UXO must be considered. 	

Preliminary Risk Level	
High	

Recommendation

Igne recommends that a Stage 2 Detailed UXO Risk Assessment of the site is undertaken to clarify the UXO risk to the proposed works.

