LAND ADJACENT 315 WAKEFIELD ROAD, LEPTON, HUDDERSFIELD

PHASE I GEO-ENVIRONMENTAL ASSESSMENT FOR BENJAMIN ALLEN CONSULTING ENGINEERS LTD

Project Ref:
EAL.83.25

Date:
June 2025

Prepared for:
Benjamin Allen Consulting Engineers Ltd.
Toll Bar House Business Centre
1 Derby Road
Ilkeston
DE7 5FH

Prepared by:		Vicky Evans BSc *Senior Geo-Environmental Engineer*
Authorised by:		Phil Devitt BSc MSc MRICS *Director*
Date:	June 2025	
Version:	1.0	

Executive Summary

This presents the salient points of the report and should not be referred to in isolation. The conclusions and recommendations presented below are considered reasonable based on the findings of the site investigation. However, these cannot be guaranteed to gain regulatory approval and therefore copies of this report should be sent to the appropriate Regulatory Authorities and / or other organisations (as appropriate) by the Client for their comments and approval prior to undertaking any irrecoverable works associated with the subject site.

SUMMARY TABLE: PHASE I GEO-ENVIRONMENTAL ASSESSMENT	
SITE:	Land adjacent to 315 Wakefield Road, Lepton, Huddersfield
CLIENT:	Benjamin Allen Consulting Engineers Ltd.
DATE:	June 2025
REFERENCE:	EAL.83.25
DEVELOPMENT PROPOSAL:	Demolition of the three existing single storey structures and construction of a single storey residential property.
HUMAN HEALTH:	Low risk – potential risk of exposure to contaminated soils in proposed garden area therefore limited and targeted testing of shallow soils is recommended.
CONTROLLED WATERS:	Low risk – review of the risk to controlled waters following soil testing to determine potential source.
GAS RISK:	Low risk - a historic backfilled pond is present to the immediate west of the site therefore as a precaution it is recommended a gas membrane is installed.
RADON GAS:	No radon protection measures required.

The executive summary given above is an overview of the key findings and conclusions of the report. There may be other information contained in the body of the report which puts into context the findings of the executive summary. No reliance should be placed on the executive summary until the whole report has been read in full.

CONTENTS

1.0 INTRODUCTION 1

2.0 PHASE I DESK STUDY AND SITE OBSERVATIONS 2

3.0 PHASE I CONCEPTUAL MODEL 5

4.0 RECOMMENDATIONS 7

5.0 CONCLUSION 7

APPENDICES

Appendix A — Figures
Appendix B — Historical OS Maps
Appendix C — Environmental Data Summary

1.0 INTRODUCTION

1.1 PREAMBLE

This Phase I Geo-Environmental Assessment has been produced for Benjamin Allen Consulting Engineers Ltd. (hereafter referred to as 'the client') to provide a pre-development contamination assessment of the site known as *Land adjacent to 315 Wakefield Road, Lepton, Huddersfield*.

Site location and boundary plans are included in **Appendix A**.

1.2 PROJECT BRIEF

The brief for the Phase I Geo-Environmental Assessment incorporates:

- A review and assessment of the site history, with reference to potentially contaminative uses.
- A review of regulatory authority and environmental data relating to the site and its environs.
- A site inspection.
- An appraisal of potential environmental risks.
- Development of a Phase I Conceptual Model

1.3 DATA REFERENCES

- Environmental Search Data (Supplied by Emapsite Ltd).
- Historical Ordnance Survey (OS) Mapping (Supplied by Emapsite Ltd).
- British Geological Survey Online Geological Mapping.
- BSI (2020), BS 5930:2015+A1 2020 Code of practice for ground investigations.
- PHE-BGS (2011), Joint Indicative Atlas of Radon in Great Britain.
- Environment Agency, Land Contamination Risk Management, October 2020

1.4 PREVIOUS REPORTS

Erda Associates Ltd. have not been made aware of any previous reports relating to the site by the client.

1.5 LIMITATIONS

This report has been produced in accordance with industry best practice at the time of writing.

In the production of this report, Erda Associates Ltd., has relied upon information provided by third parties. Erda Associates Ltd cannot accept responsibility for the reliability and authenticity of this information. Erda Associates Ltd. will not be responsible for any opinions which it has expressed, or conclusions which it has drawn, in reliance upon information which is subsequently proven to be inaccurate.

This report has been prepared for the sole use of the client and shall not be relied upon or transferred to third parties without the express written consent of Erda Associates Ltd. Unauthorised third parties rely upon the information contained within this report at their own risk.

1.6 PROPOSED DEVELOPMENT

The development proposal includes demolition of the three existing single storey structures and construction of a single storey residential property.

Site plans are included in **Appendix A.**

2.0 PHASE I DESK STUDY AND SITE OBSERVATIONS

2.1 GEOGRAPHICAL SETTING

The site is situated 6.7km to the east of Huddersfield town centre. The site is roughly centred at national grid reference SE 207 152.

Site location and boundary plans are presented in **Appendix A**.

2.2 SITE DESCRIPTION

The site comprises an irregular shaped plot with several barn buildings within the south western section. It is understood there are three existing single storey buildings used to facilitate the maintenance of adjoining land.

Mature trees and shrubs are present to the immediate south and west of the site. A road is present immediately beyond the trees to the south.

The remaining site area comprises part of a grass agricultural field.

The area surrounding the site generally comprises agricultural fields while a bar and restaurant is present to the west.

Significant Features identified on OS Maps:
On site maintenance barns – potential low risk of contamination (e.g. Heavy Metals, PAHs, Petroleum Hydrocarbons (TPH) and Asbestos).

2.3 HISTORICAL REVIEW: SITE DEVELOPMENT

Ordnance Survey maps have been reviewed for the years 1884 - 2025. The OS maps are contained in **Appendix B**, for reference.

The summary below identifies the historical features identified on the historical mapping data considered likely to have the potential to affect the site. All distances are approximates.

Date	Identified On-site Hazard	Identified Off-site Hazard
1893	The site comprises part of two agricultural fields.	A pond is present to the immediate west. The area surrounding the site generally comprised agricultural fields. A road is present to the immediate south. A farm, Inn and smithy are present approximately 100m to the west. Air shafts are present approximately 200m to the north east.
1906	There has been no significant change to the sites use.	The pond to the immediate west appears to be infilled.
1913	There has been no significant change to the sites use.	There is no significant change to the neighbouring lands uses.
1961-63	The site appears to form part of a single agricultural field.	An embankment feature is shown along the run to the south of the site. Several of the buildings to the west appear to have been demolished.
1978	There has been no significant change to the sites use.	There is no significant change to the neighbouring sites uses.
1990-93	There has been no significant change to the sites use.	There is no significant change to the neighbouring sites uses.
2003	There has been no significant change to the sites use.	There is no significant change to the neighbouring sites uses.
2010	There has been no significant	There is no significant change to the

	change to the sites use.	neighbouring sites uses.
2025	There has been no significant change to the sites use.	There is no significant change to the neighbouring sites uses.

Significant Features identified on OS Maps:
On-site hazard: The site has largely been undeveloped. A significant on-site source has not been identified - low risk of contamination. Off-site hazard: Neighbouring backfilled pond – potential risk of ground gas.

2.4 ANTICIPATED GEOLOGY

The BGS geological map for this area illustrates;

- An area of Made Ground is recorded 128m to the north east of the site.
- Superficial Deposits are not reported on site.
- The northern section of the site site is underlain by solid strata of the Pennine Lower Coal Measures Formation while the southern section of the site is underlain by Falhouse Rock (Sandstone).

Significant Features identified from geological data:
An area of made ground is present within close proximity to the site. Solid Strata deposits are anticipated.

2.5 HYDROGEOLOGY & HYDROLOGY

2.5.1 Hydrogeology

The solid strata is classified as a Secondary A Aquifer, defined as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

There are no active groundwater abstraction site is present within 250m of the site. The site is not located within a groundwater Source Protection Zone (SPZ).

Significant Features identified from hydrogeological data:
Secondary A Aquifer underlying the site.

2.5.2 Hydrology

An inland river (Rods Beck) is recorded approximately 167m to the north east.

2.6 MINING

2.6.1 Coal

The site is located within a Coal Authority High Risk Development area; therefore, a Coal Mining Risk Assessment is recommended for the site.

2.6.2 Non-Coal Extraction

The site is not recorded to be located within an area for which non coal mineral extraction is recorded.

Significant Mining Risks:
Coal Mining Risk Assessment is recommended for the site.

2.7 POTENTIALLY CONTAMINATIVE LAND USES

Environmental search data supplied by Environmental Data Ltd (**Appendix C**) states that:

- No historical or recent landfill are recorded within 500m of the site.
- There are no other waste sites recorded within 500m of the site.
- There are two waste exemptions are recorded within 250m of the site. These are located 236m and 244m east of the site and relate to use of waste in construction.
- There are no sites determined as contaminated land within 500m of the site.
- There are thirteen historical industrial land uses recorded within 250m of the site. These relate to a smithy 119m south west in 1904 and air shafts 199m to 221m north east between 1904 and 1993.
- There are two current industrial land uses within 250m of the site. The nearest is located 202m to the north east and relates to an air shafts.
- There are no discharge consents within 250m of the site.
- There are no current or historic petrol stations within 250m of the site.
- There are no pollution incidents recorded within 500m of the site.
- There are no hazardous substance or IPC consents located within 500m of the site.

Significant Features identified from Environmental Data:
Very low risk – a significant potential source of contamination has not been identified within proximity of the site.

2.8 RADON GAS ASSESSMENT

The site has been assessed in accordance with the guidelines in “Radon: guidance on protective measures for new buildings” (BR 211 - BRE, 2015).

The estimated number of properties affected by Radon is less than 1%. Therefore, radon protection measures will not be required.

Radon Gas Hazard:
No radon protection measures required.

3.0 PHASE I CONCEPTUAL MODEL

3.1 SOURCE-PATHWAY-RECEPTOR

The conceptual model for the site considers the development proposal for a residential with produce end use and the preceding information.

The site's former use as maintenance barns are considered to pose a low risk of contamination. Possible contaminants of concern are considered to be limited due to its previous usage however may include Heavy Metals, PAHs, TPH and Asbestos fibres.

No landfills are recorded within 500m of the site however a backfilled pond is present to the immediate west of the site. However, this is not considered to pose a significant risk of ground gas due to the age of backfill (>100 years old). However, as a precautionary approach to ground gases it is recommend a gas membrane is installed within the proposed residential development.

Pathways for the end user of the site include direct contact (dermal) with potentially contaminated soil dust; ingestion and inhalation of potentially contaminated soil dust and ingestion of vegetables which have taken up the contamination.

The primary receptors for the site are construction workers and end users of the site (residents).

The development proposal incorporates conversion of the existing building into a residential property. The internal areas will be covered with hardstanding thereby breaking the source-pathway-receptor linkage. A private garden area is proposed for the development; therefore, it is considered the external areas pose a low risk to the proposed end user and it is recommended limited and targeted sampling with analysis is undertaken in the proposed garden area.

For the controlled waters environment, the primary receptor is the Secondary A Aquifer) underlying the site.

Possible contaminants of concern include Heavy metals, PAHs and TPH. However, it is noted that any potential sources of contamination present on site (i.e. vehicles/maintenance machinery/tools) will be removed for the development of the residential property. As such it is considered that any significant contamination will have naturally attenuated in this time. Furthermore, the proposed residential development will not significantly alter the site or increase the risk to controlled waters. Further assessment relating to controlled waters is recommended following the results of the soil testing.

The primary pathway for controlled waters is the leaching and vertical migration of potential contaminants through the vadose zone to the saturated zone.

The development of the conceptual model is illustrated on Figure 3.1.

Figure 3.1: Conceptual Site Model

HUMAN HEALTH			
Source	**Pathway**	**Receptor**	**Level of Risk/Recommended Action**
Potentially contaminated made ground or natural strata from historical site usage along with surrounding historical potentially contaminative land uses and activities.	Indoor and outdoor inhalation of soil dust, the ingestion of, and dermal contact with, contaminated soil and soil dust, ingestion of vegetables that have taken up contamination and contaminated soil attached to vegetables.	End users	Internal areas to be covered with hardstanding which will act to break the source-pathway-receptor linkage. Low risk in area of proposed garden – precautionary screening of the shallow soils in this area is recommended as a precaution.
		Construction Workers.	
	Inhalation of asbestos fibres	End users	
		Construction Workers.	
Backfilled pond to the immediate west of the site.	Inhalation of Ground Gases	End users	Low risk – no further assessment required however as a precaution it is recommended a gas membrane is installed in the proposed development.
Potentially contaminated made ground or natural strata from historical site usage along with surrounding historical potentially contaminative land uses and activities.	Water pipes.	End users.	Low risk – chemical screening of shallow soils recommended as part of Phase II investigation.
CONTROLLED WATERS			
Potentially contaminated Made Ground or natural strata from historical site usage.	Leaching of contaminants and vertical migration to the groundwater.	Secondary A Aquifer – Pennine Lower Coal Measures	Low risk – to be assessed as part of Phase II investigation.

4.0 RECOMMENDATIONS

Based on the findings of this report and the development proposal a low risk of contamination has been identified in the area of the proposed garden area at the site. Therefore, it is recommended that limited and targeted screening of the shallow soils in the proposed garden area is undertaken in order to assess the potential risk to future end users further.

A historic backfilled pond is present to the immediate west of the site therefore as a precautionary approach it is recommended that a gas membrane is installed within the proposed development.

The risk to controlled waters is considered to be low however a review of the risk should be undertaken following assessment of the soil testing.

Following your review of this document, a copy of it should be submitted to the Planning Department of the Local Authority for comment and approval prior to any ground investigation works being undertaken, as this is often a condition of planning.

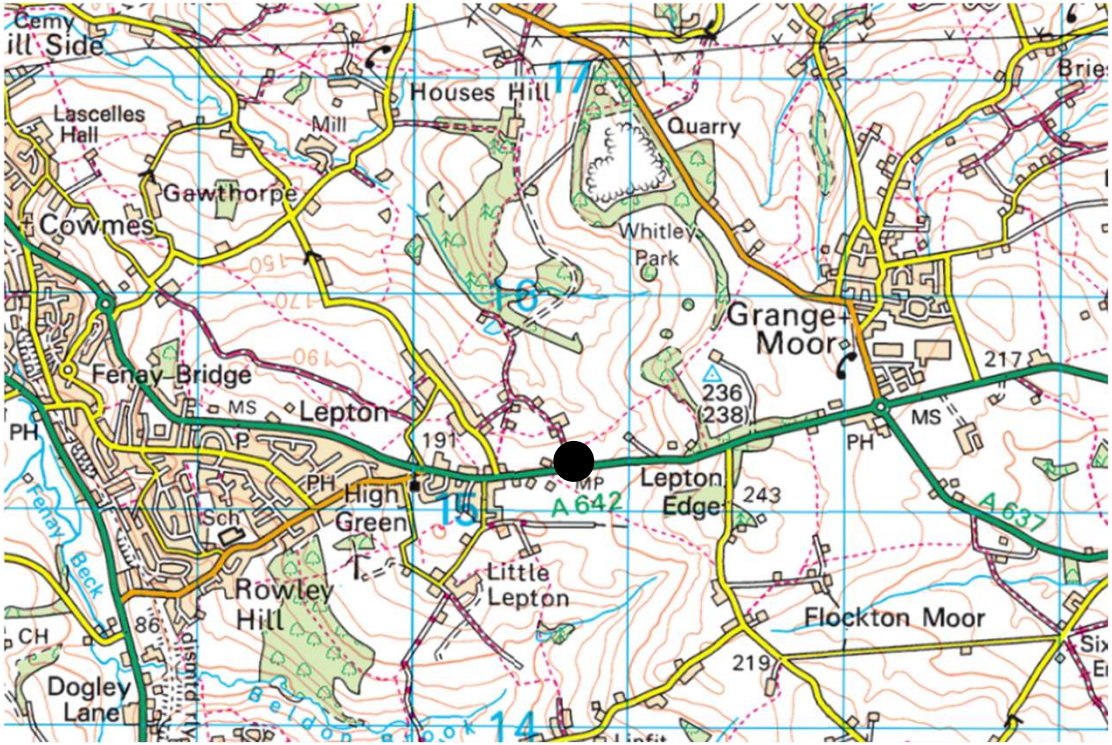
5.0 CONCLUSION

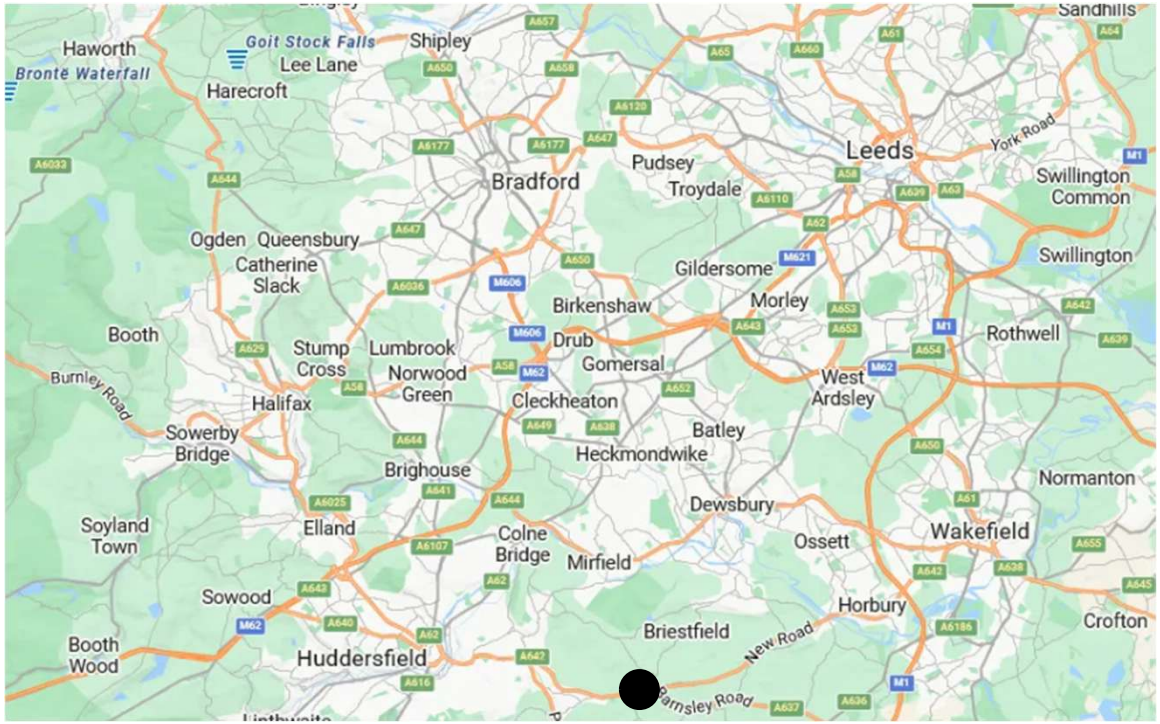
Screening of the shallow soils in the proposed garden is recommended in order to further assess the potential risk of contamination to end users in this area.

This Phase I Site Appraisal has shown the site is suitable for the proposed development, assuming compliance with all the recommendations contained within this report.

Appendix A







KEY:

● Approximate Site Location

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Verda Associates ltd

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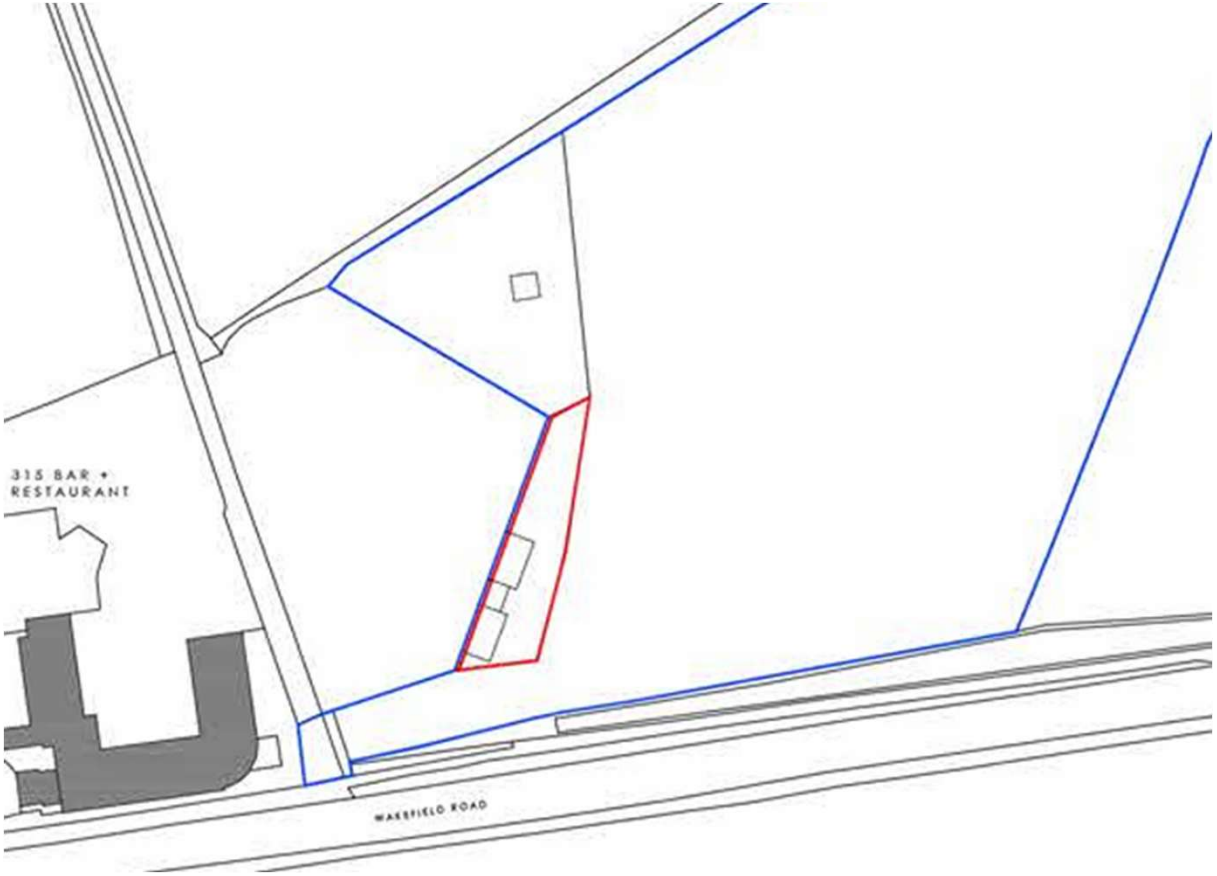
Site Location Plan

PROJECT:

Wakefield Road, Lepton, Huddersfield

PROJECT No:	DATE:
EAL.83.25	06/2025

SCALE :	DRAWN :	DWG No:
NTS	VE	Figure 1



KEY:

Site Boundary

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Verda Associates ltd

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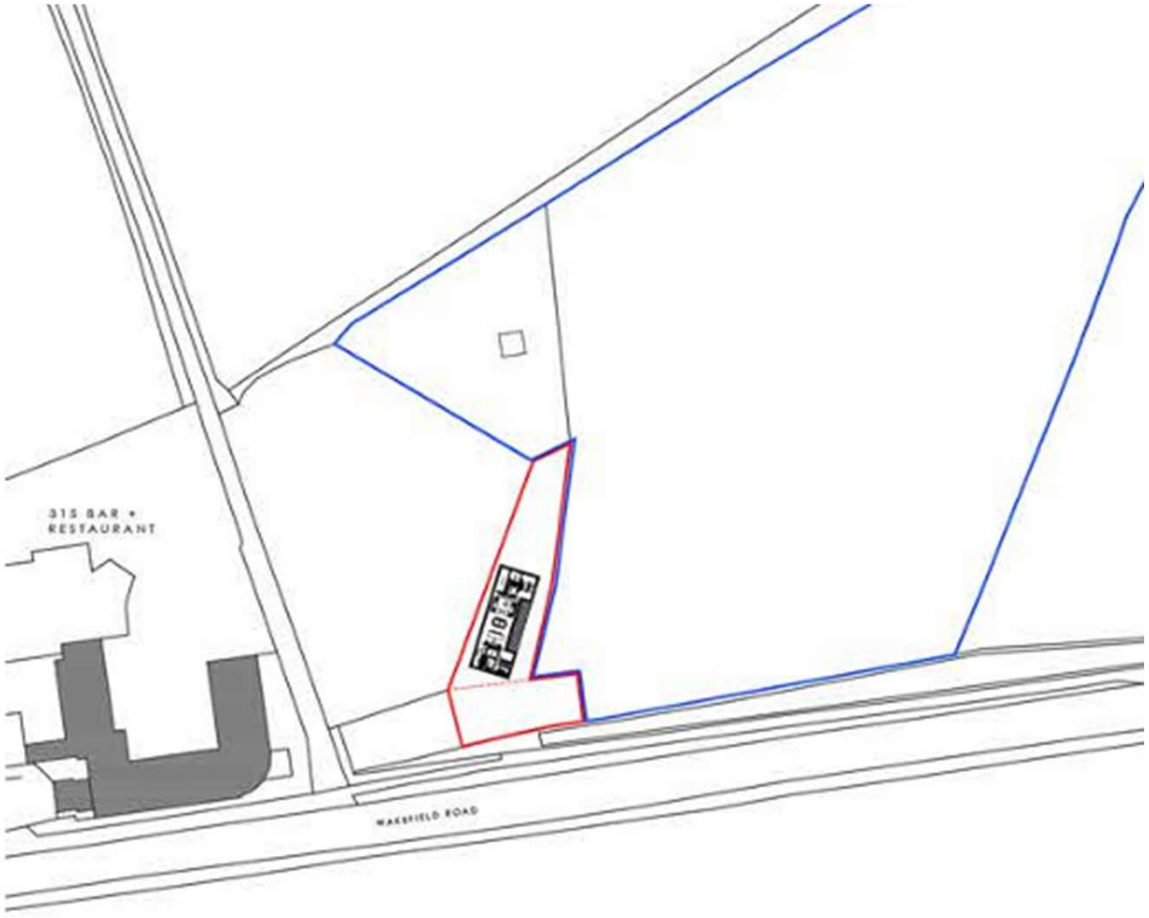
Site Layout

PROJECT:

Wakefield Road, Lepton, Huddersfield

PROJECT No:	DATE:
EAL.83.25	06/2025

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KEY:

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Development Proposal

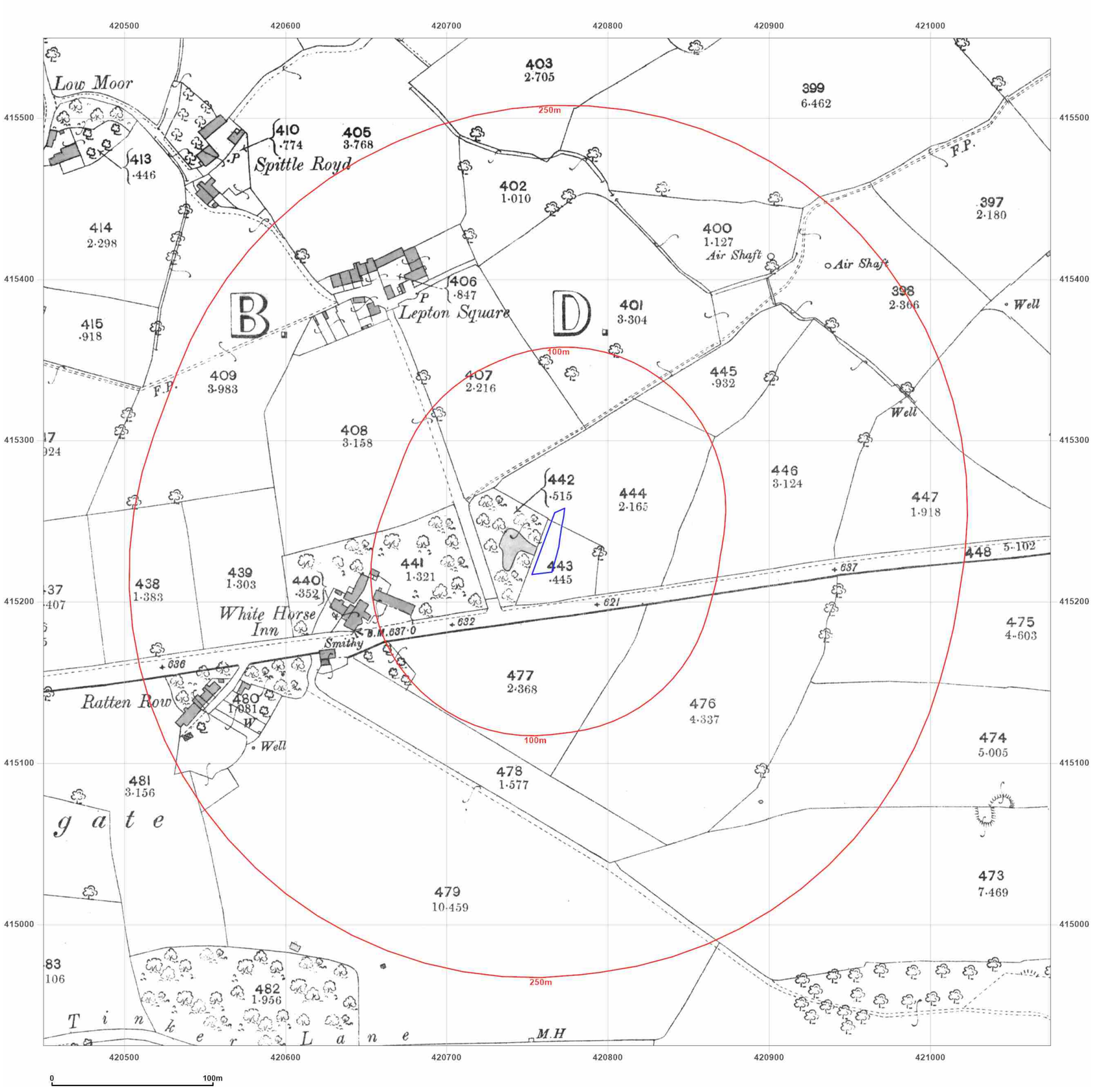
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Wakefield Road, Lepton, Huddersfield

PROJECT No:	DATE:
EAL.83.25	06/2025

SCALE :	DRAWN :	DWG No:
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Appendix B



EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

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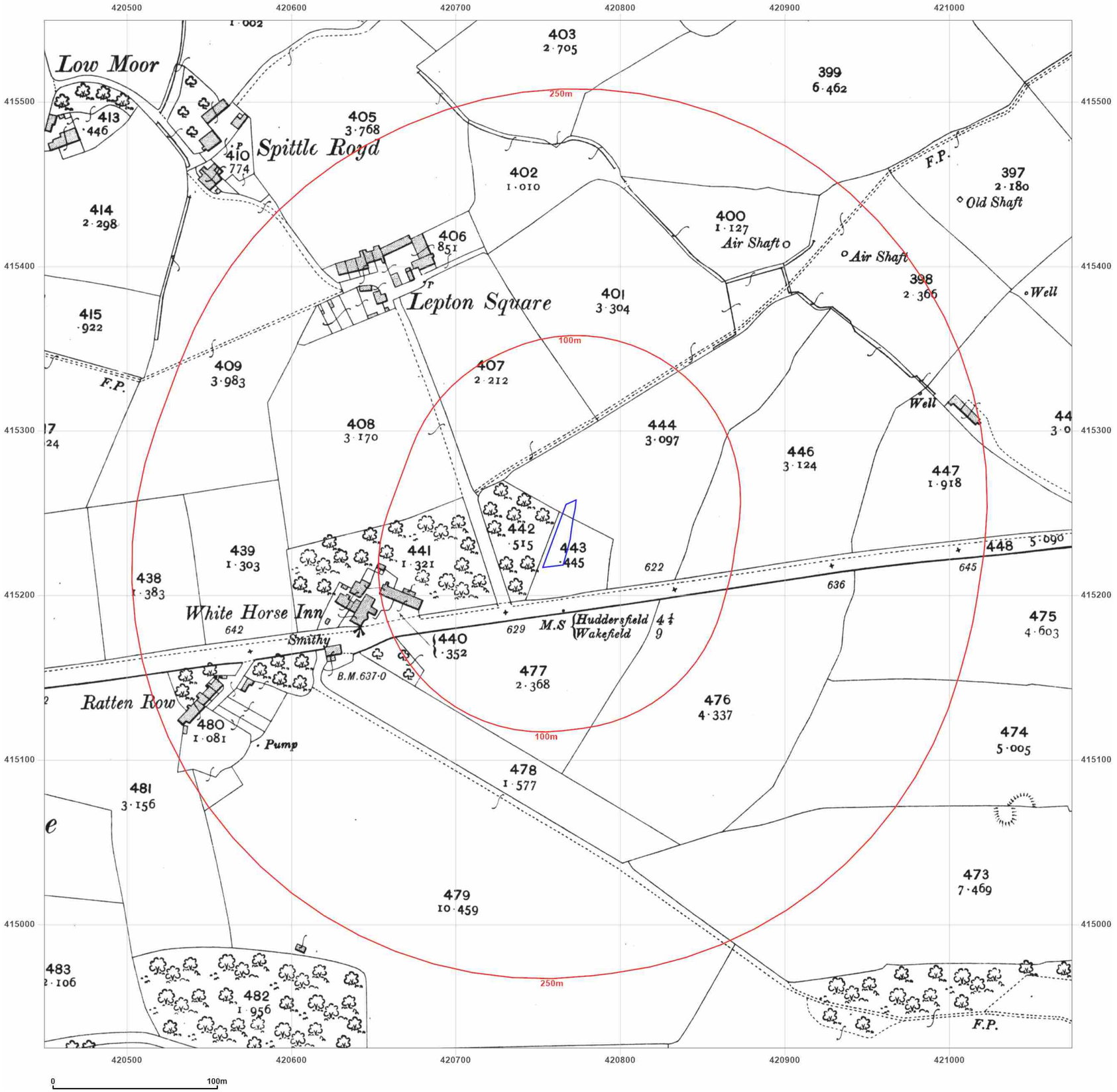
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Production date: 03 June 2025

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Site Details:

unspecified

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Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

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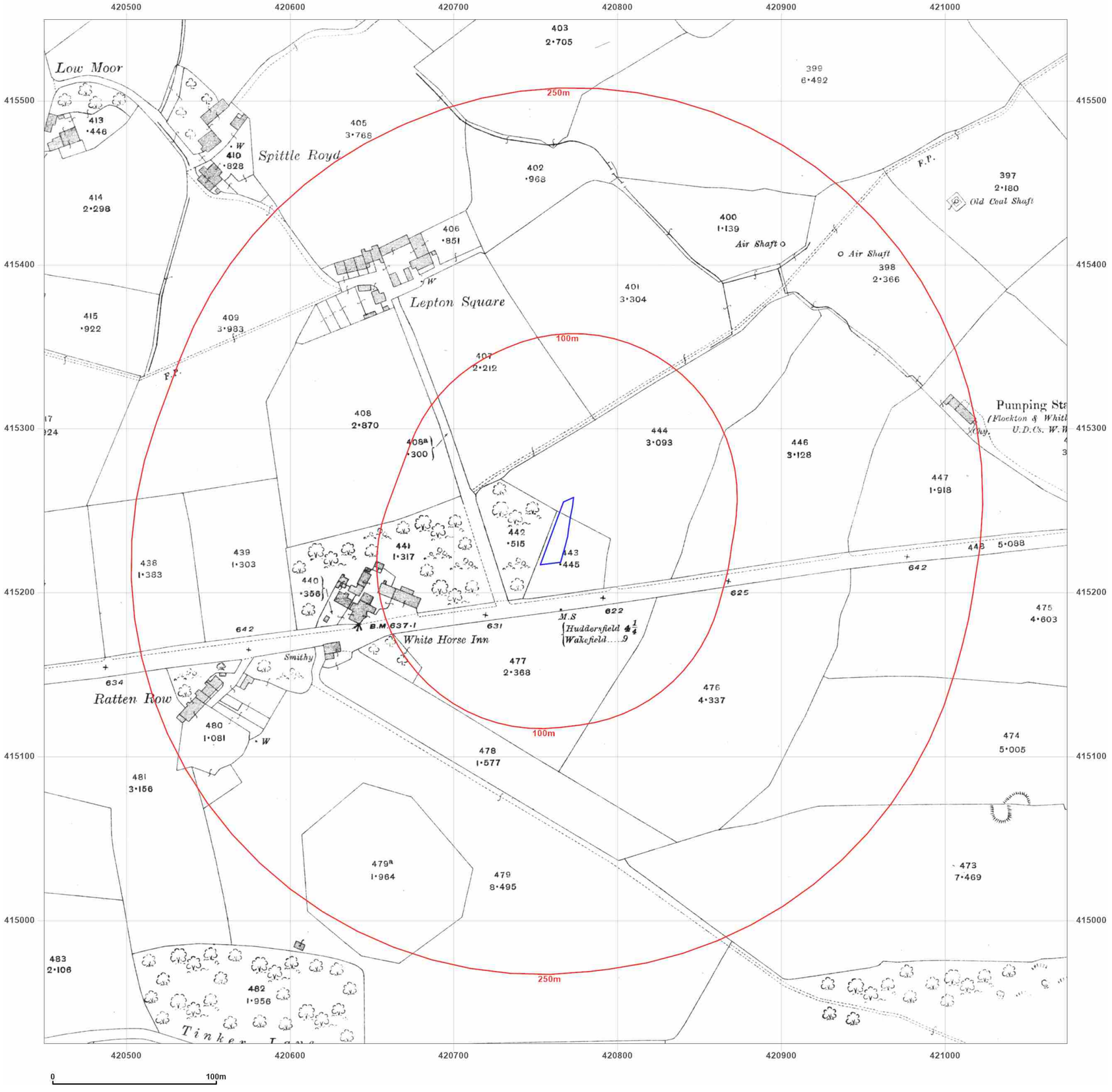
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Printed at: 1:2,500

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Surveyed 1913
Revised 1913
Edition N/A
Copyright N/A
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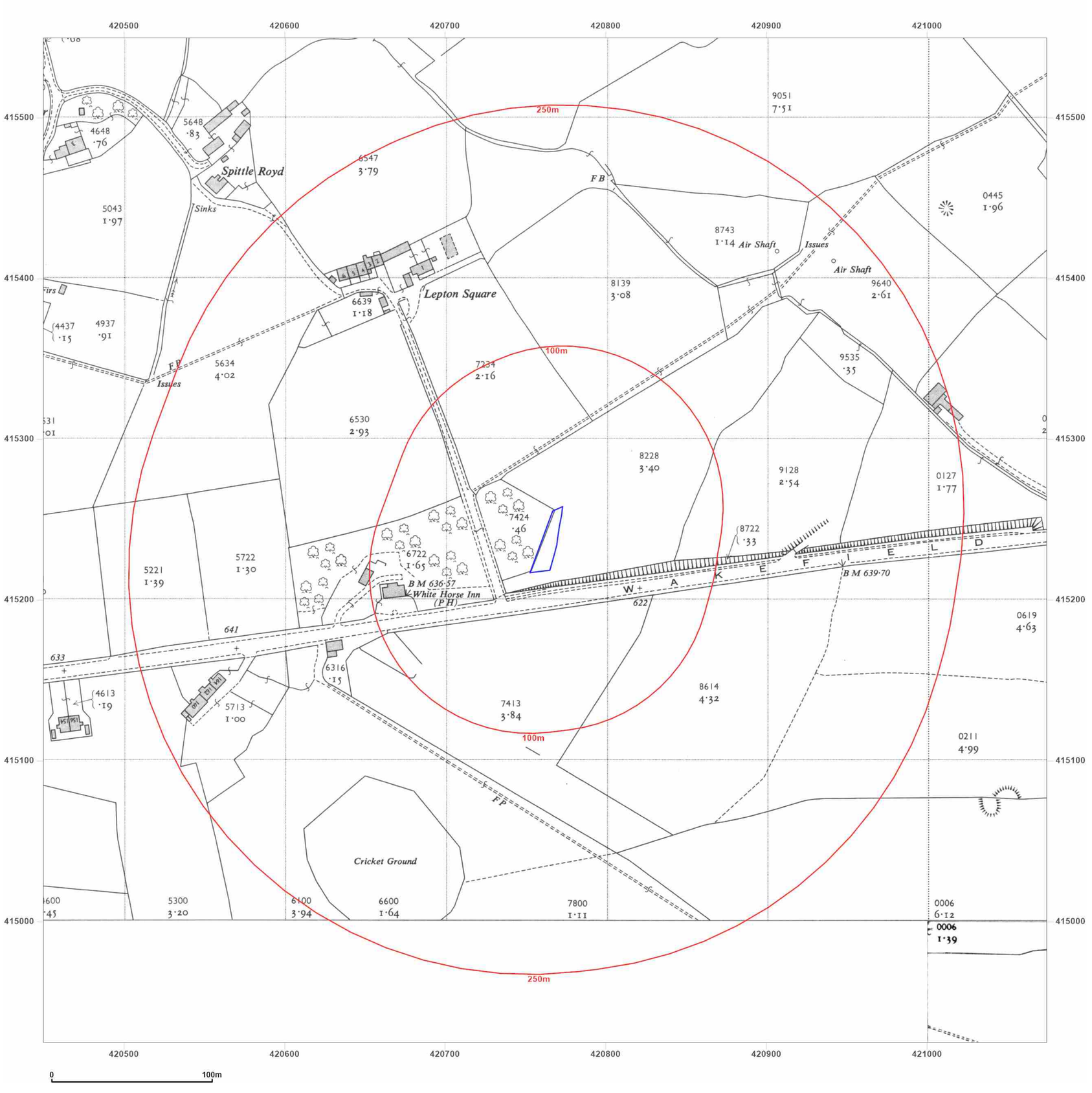
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Report Ref: EMS-1027184_1297415
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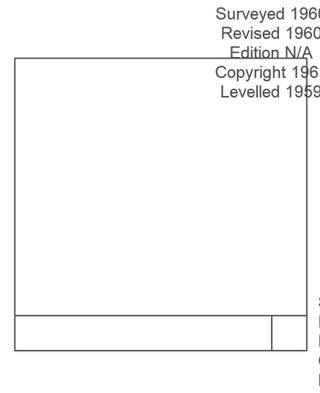
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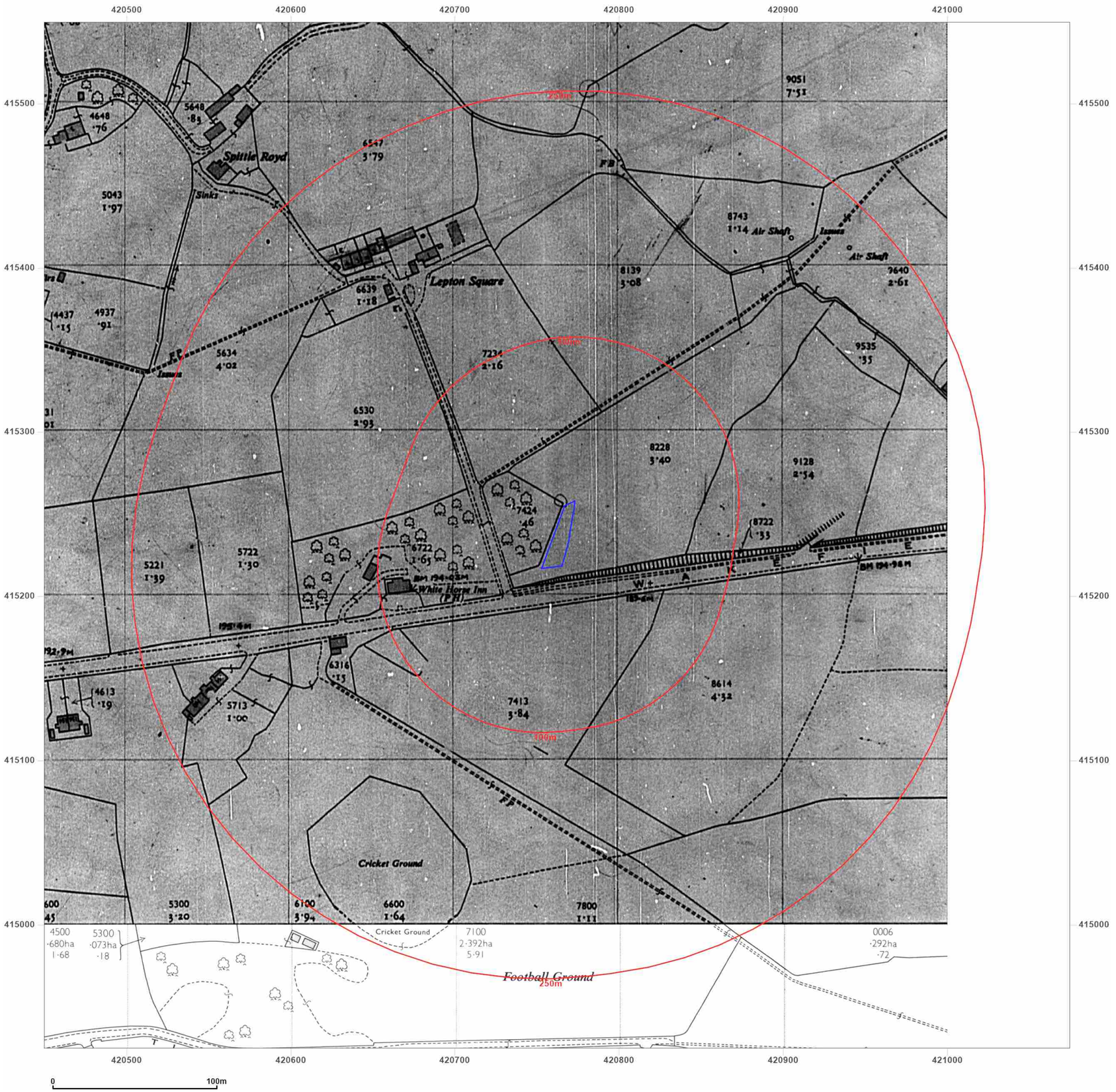
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Map Name: National Grid

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Printed at: 1:2,500

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Surveyed 1978
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Edition N/A
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Surveyed 1977
Revised 1977
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Copyright 1978
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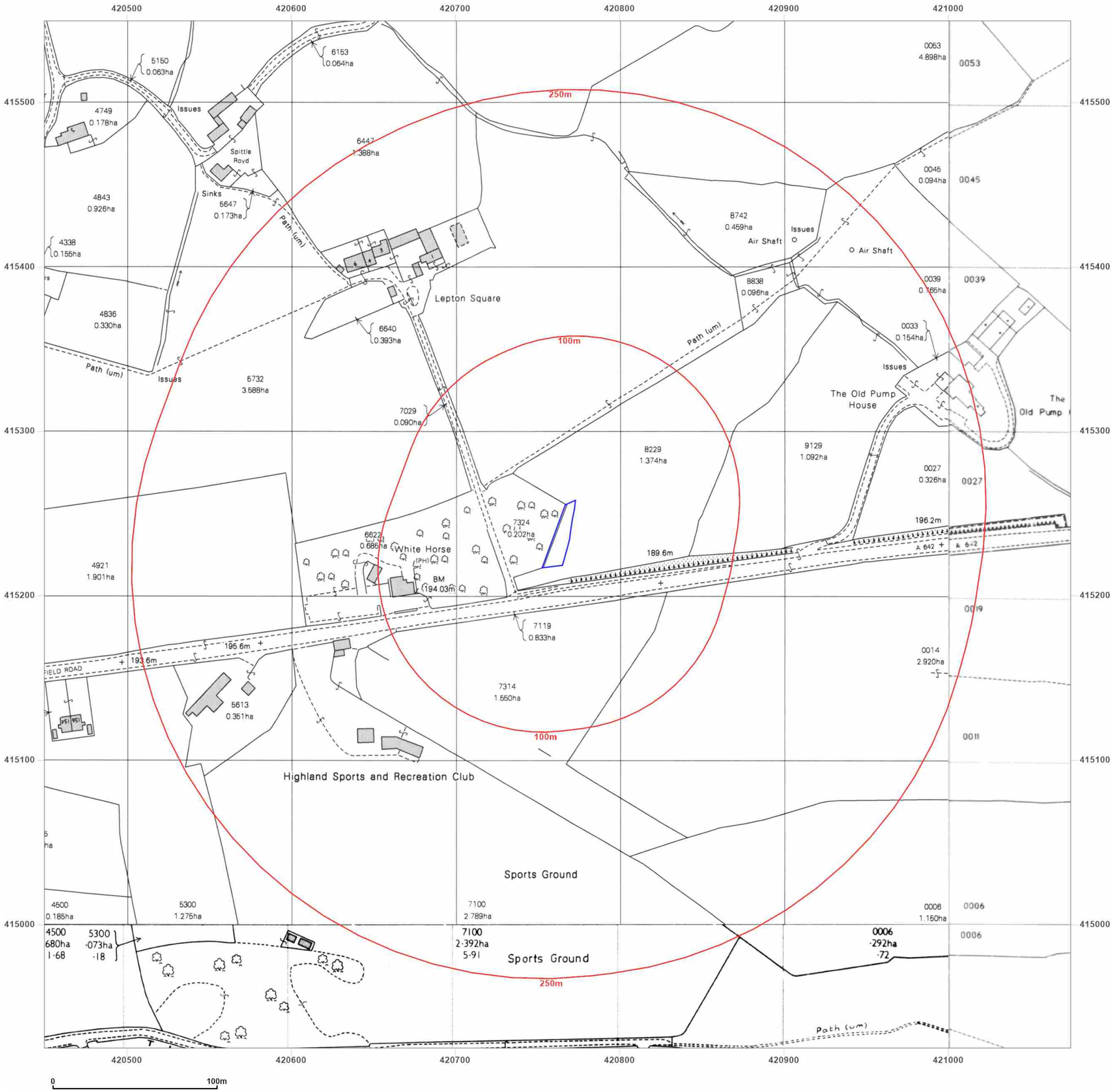
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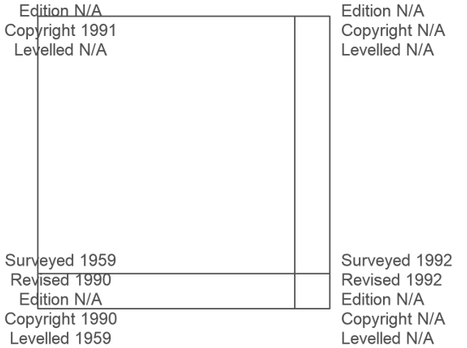
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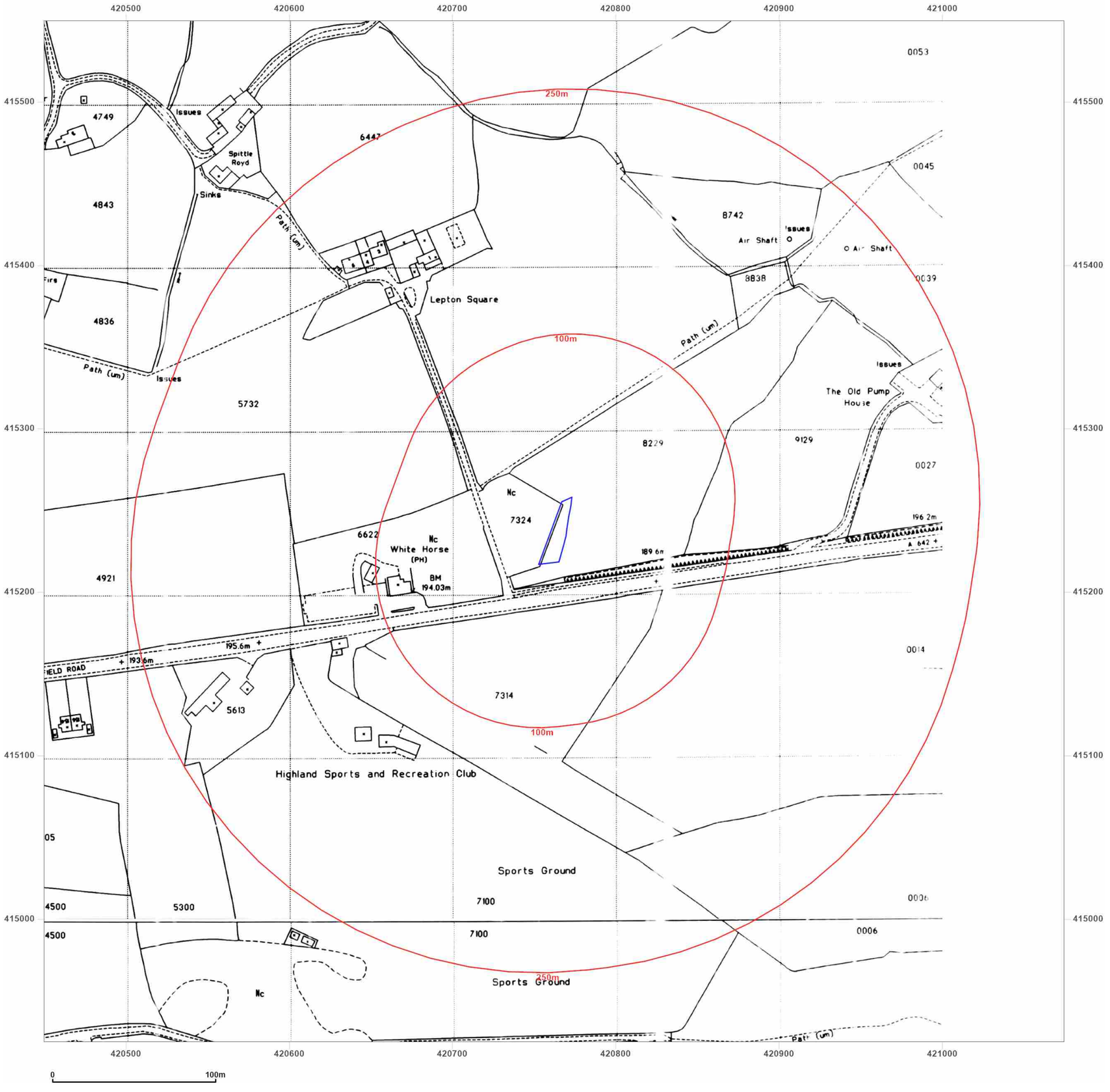
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Grid Ref: 420762, 415237

Map Name: National Grid

Map date: **1992-1993**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1992
Levelled N/A

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Report Ref: EMS-1027184_1297415
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Printed at: 1:1,250

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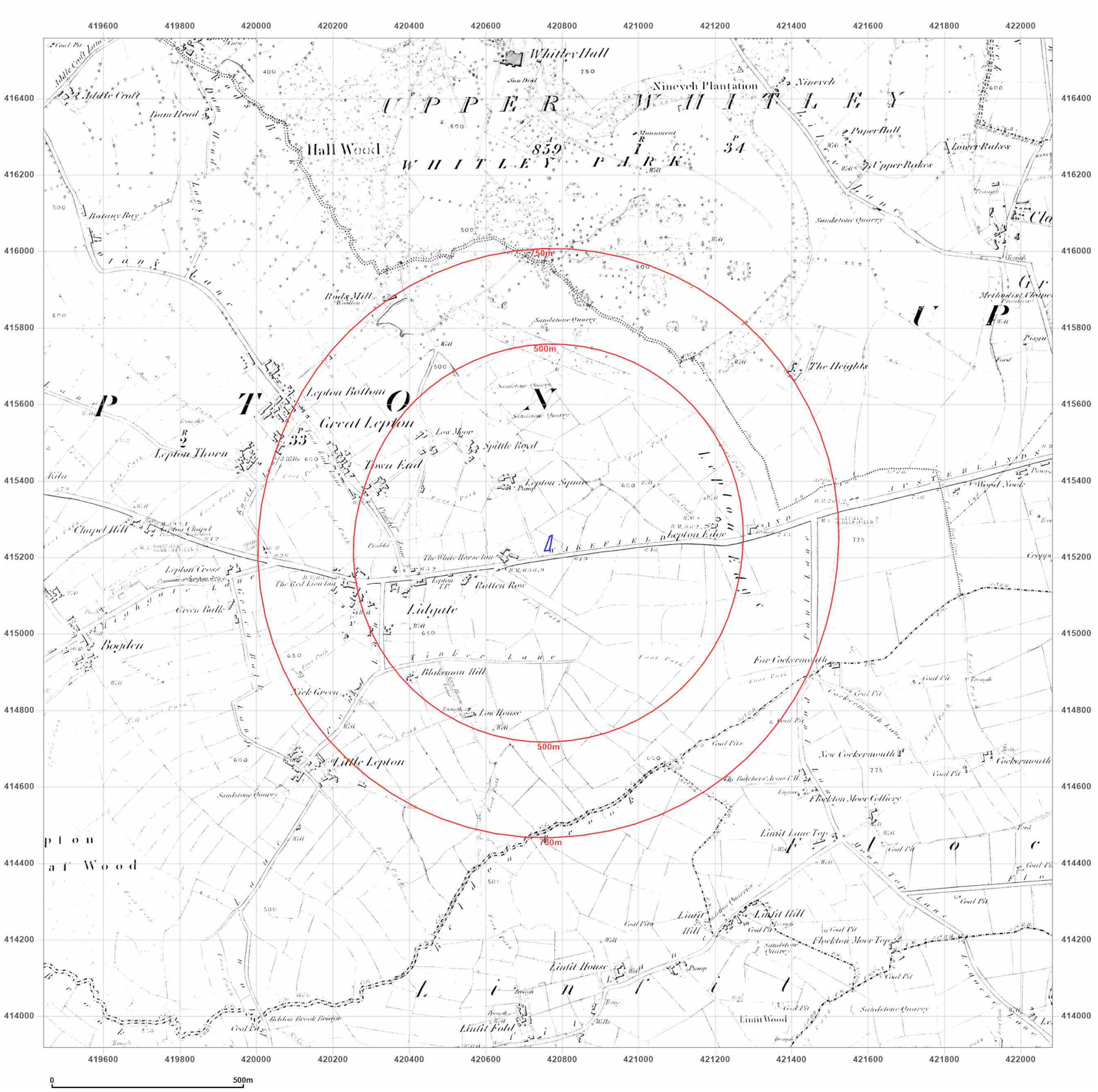
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EMAPSITE™

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unspecified

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Report Ref: EMS-1027184_1297415
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Map date: **1854-1855**

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Printed at: 1:10,560

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Surveyed 1851
Revised N/A
Edition 1855
Copyright N/A
Levelled N/A

Surveyed 1850
Revised N/A
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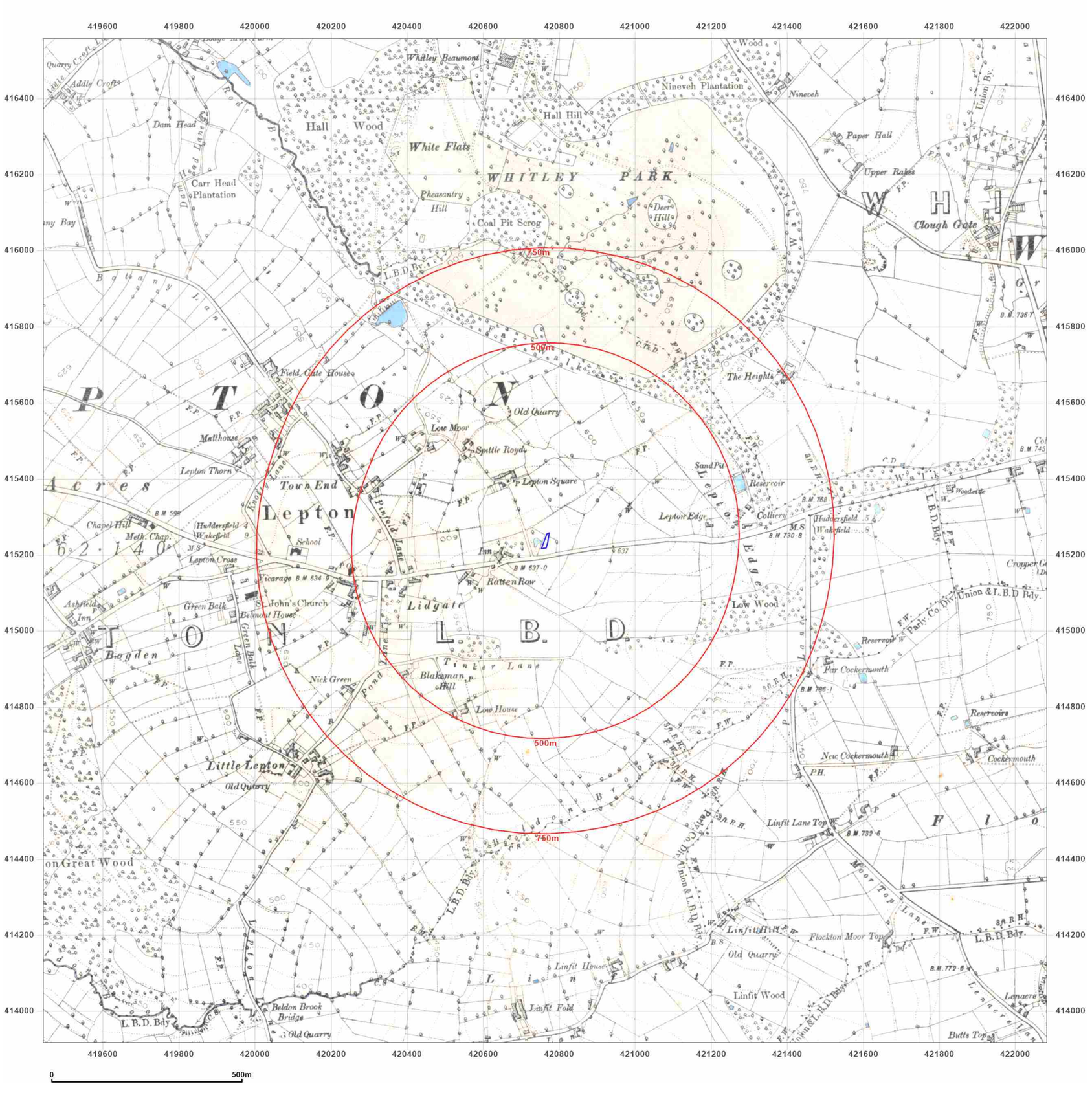
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Production date: 03 June 2025

Map legend available at:
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: County Series

Map date: **1888-1892**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1888
Revised 1888
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

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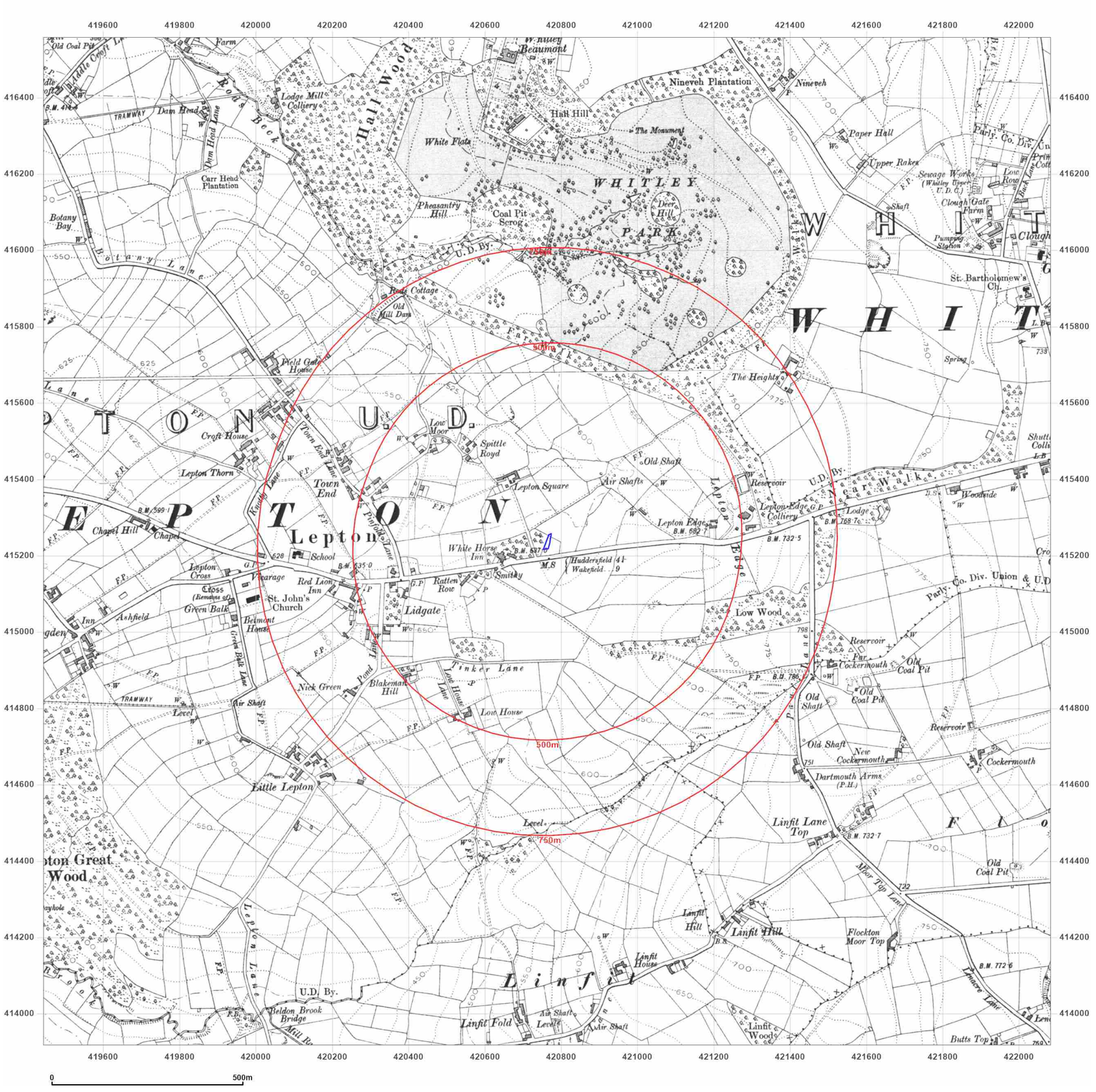
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: County Series

Map date: **1904**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1888
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1904
Edition N/A
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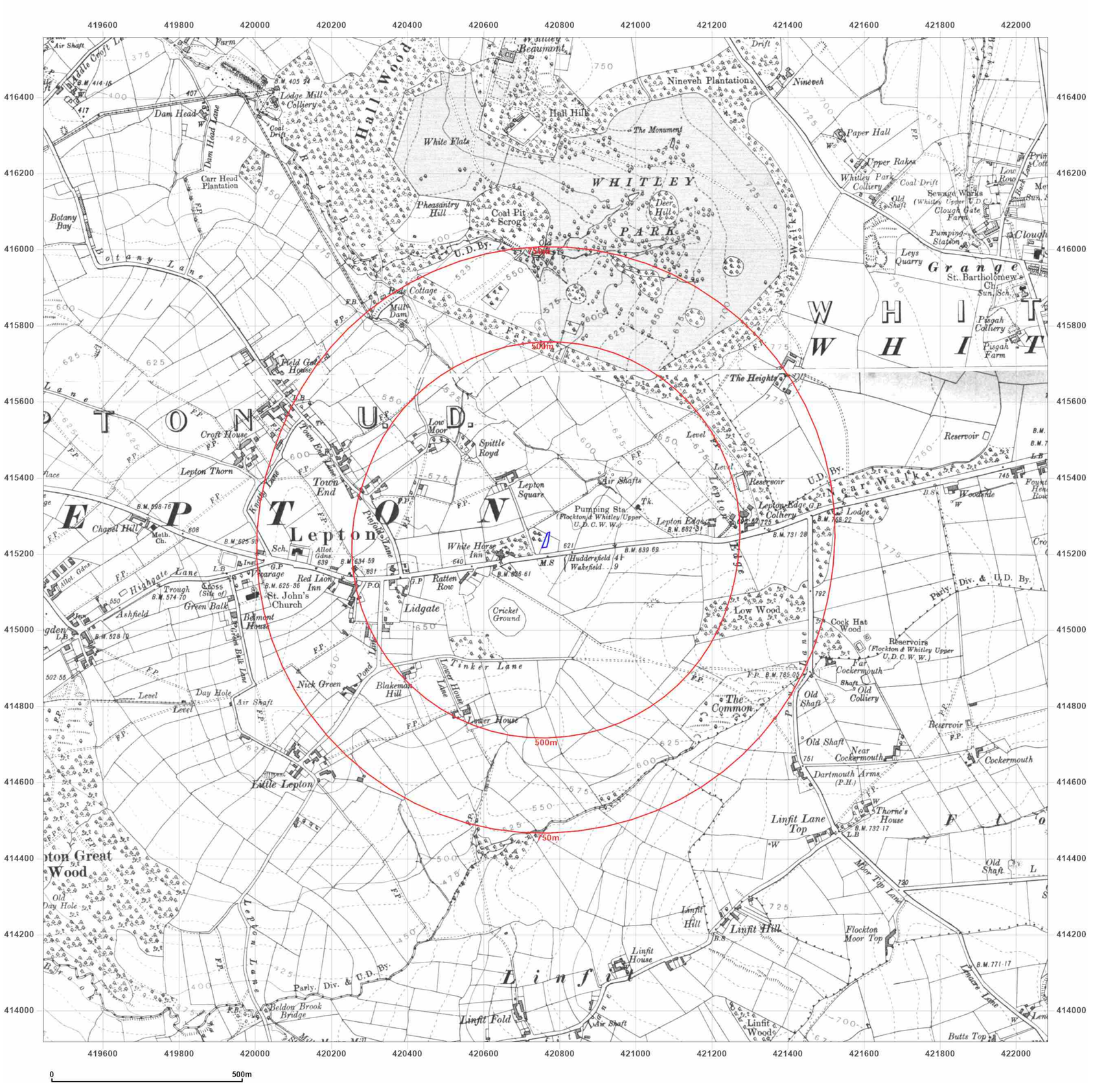
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Site Details:

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Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: County Series

Map date: **1930**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1851
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1851
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

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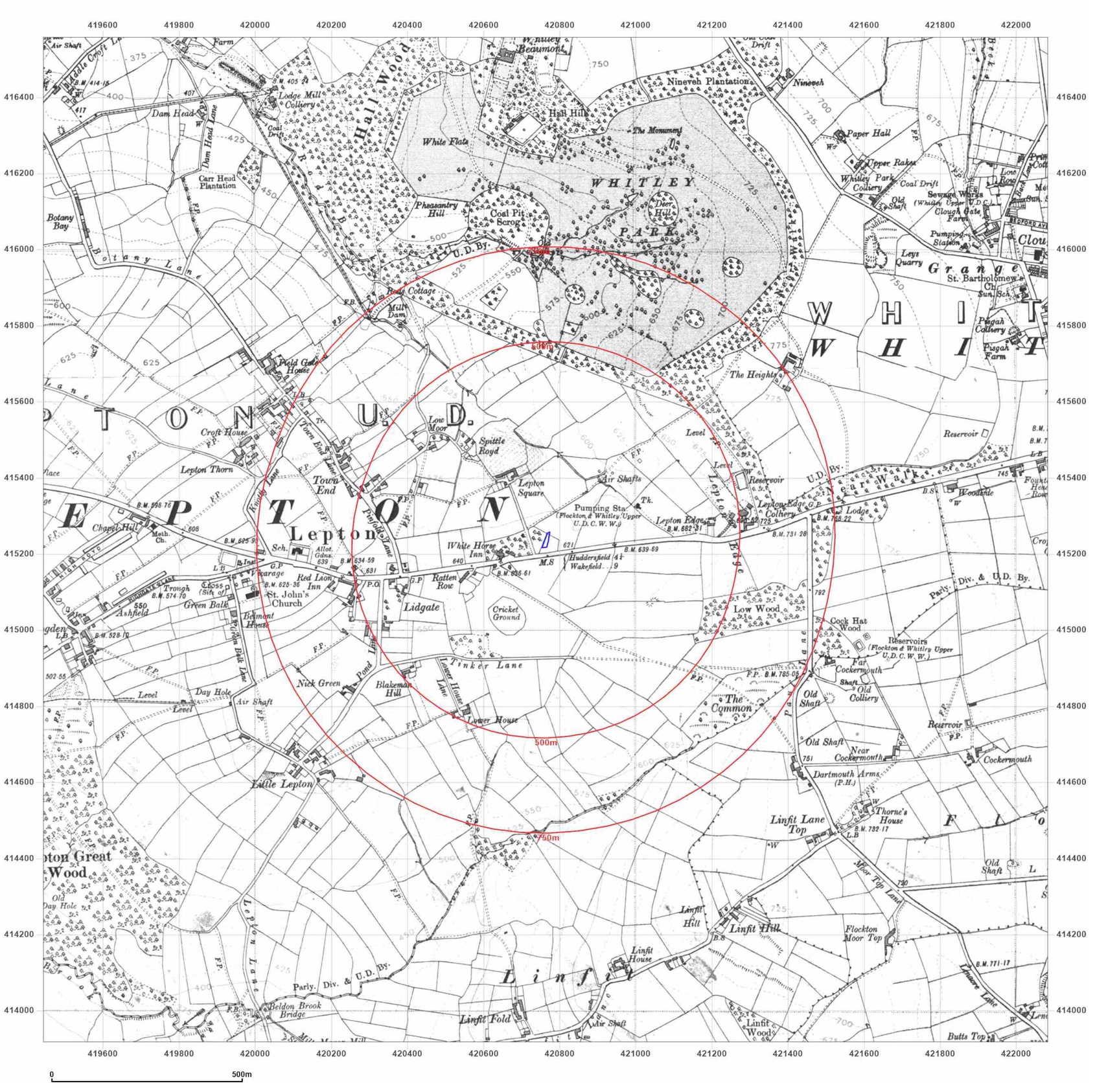
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1851
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Surveyed 1851
Revised 1938
Edition N/A
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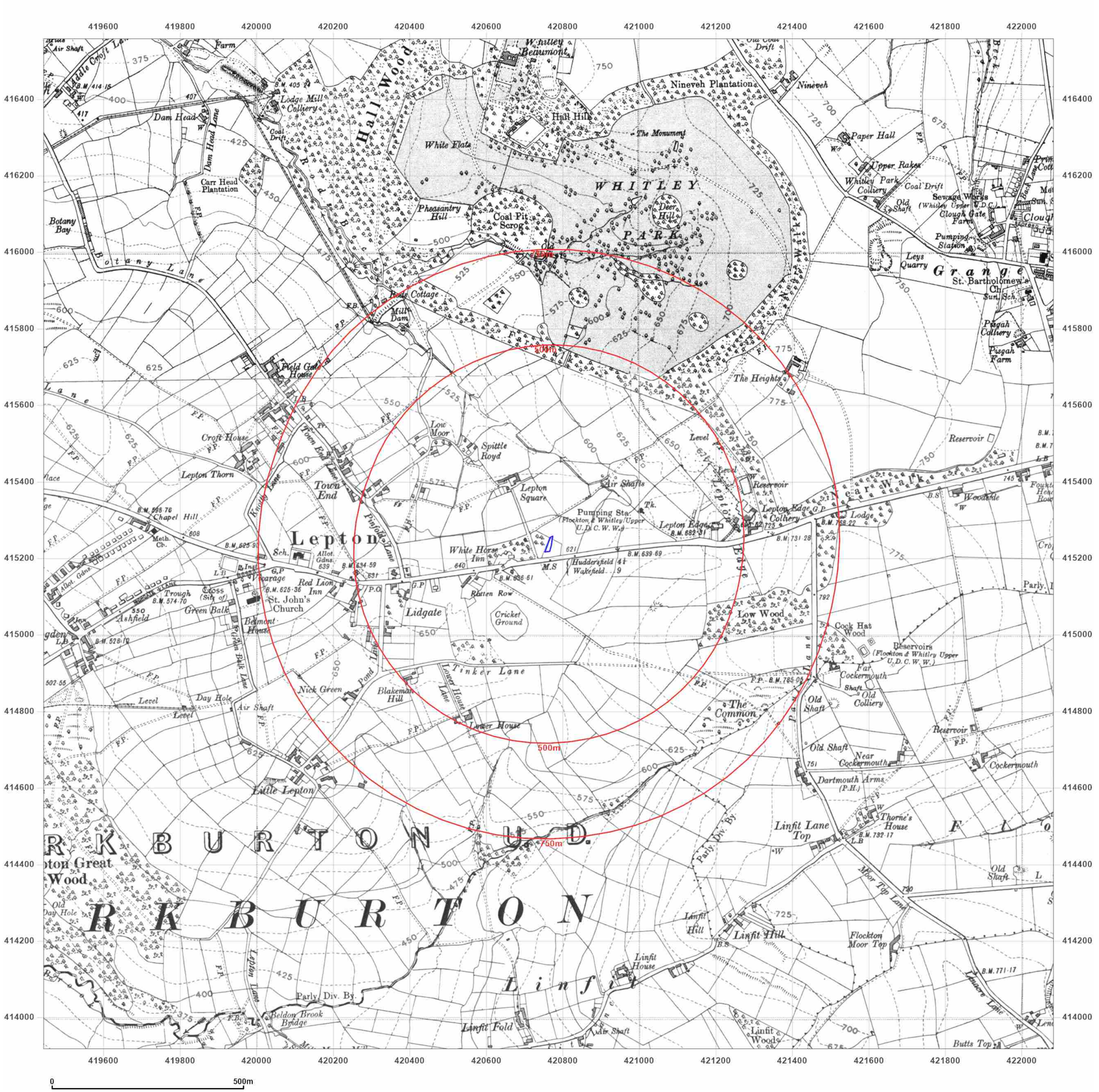
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1850
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1851
Revised 1948
Edition 1948
Copyright N/A
Levelled N/A

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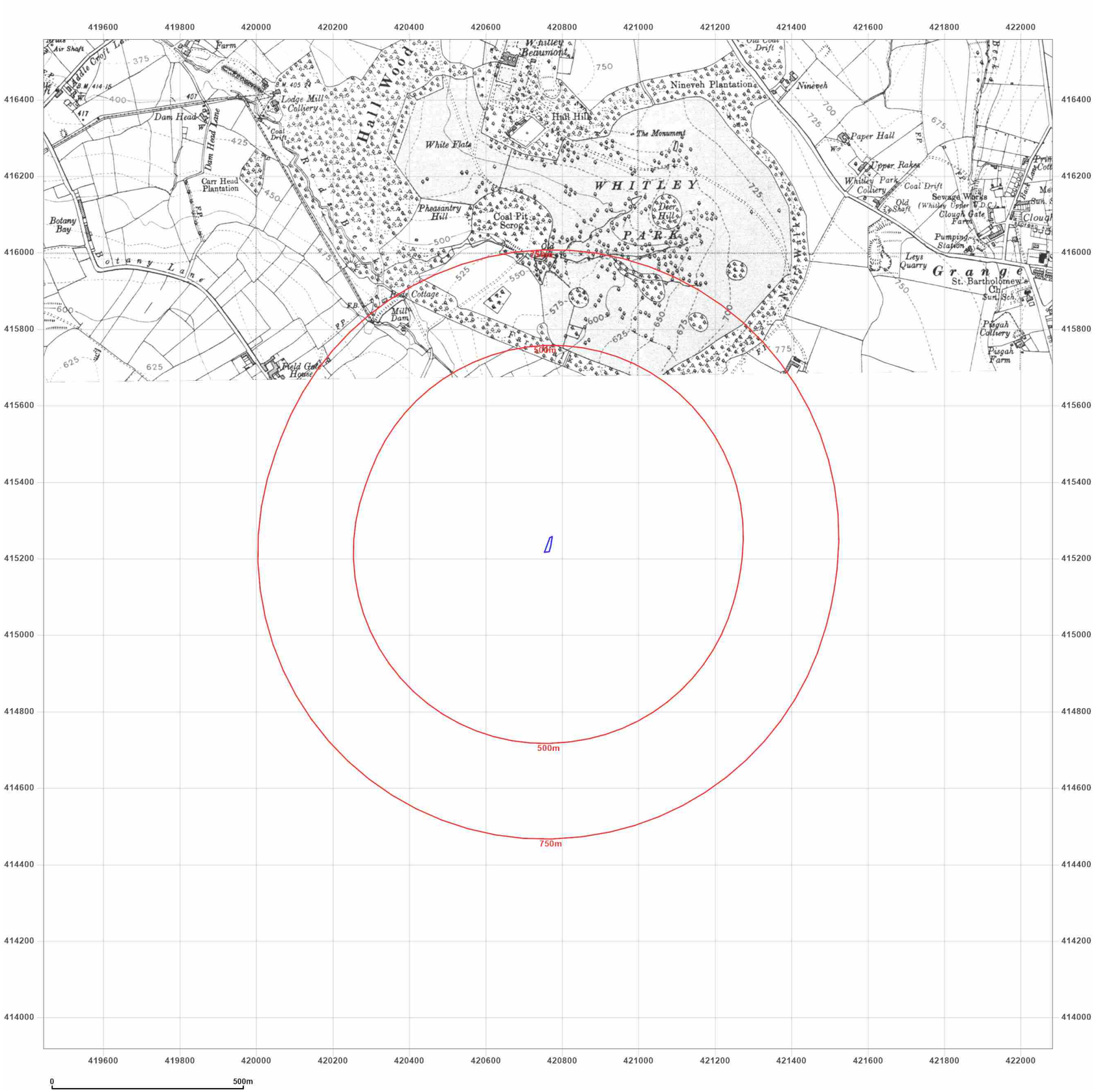
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: County Series

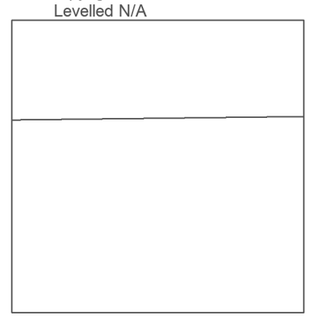
Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1851
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A



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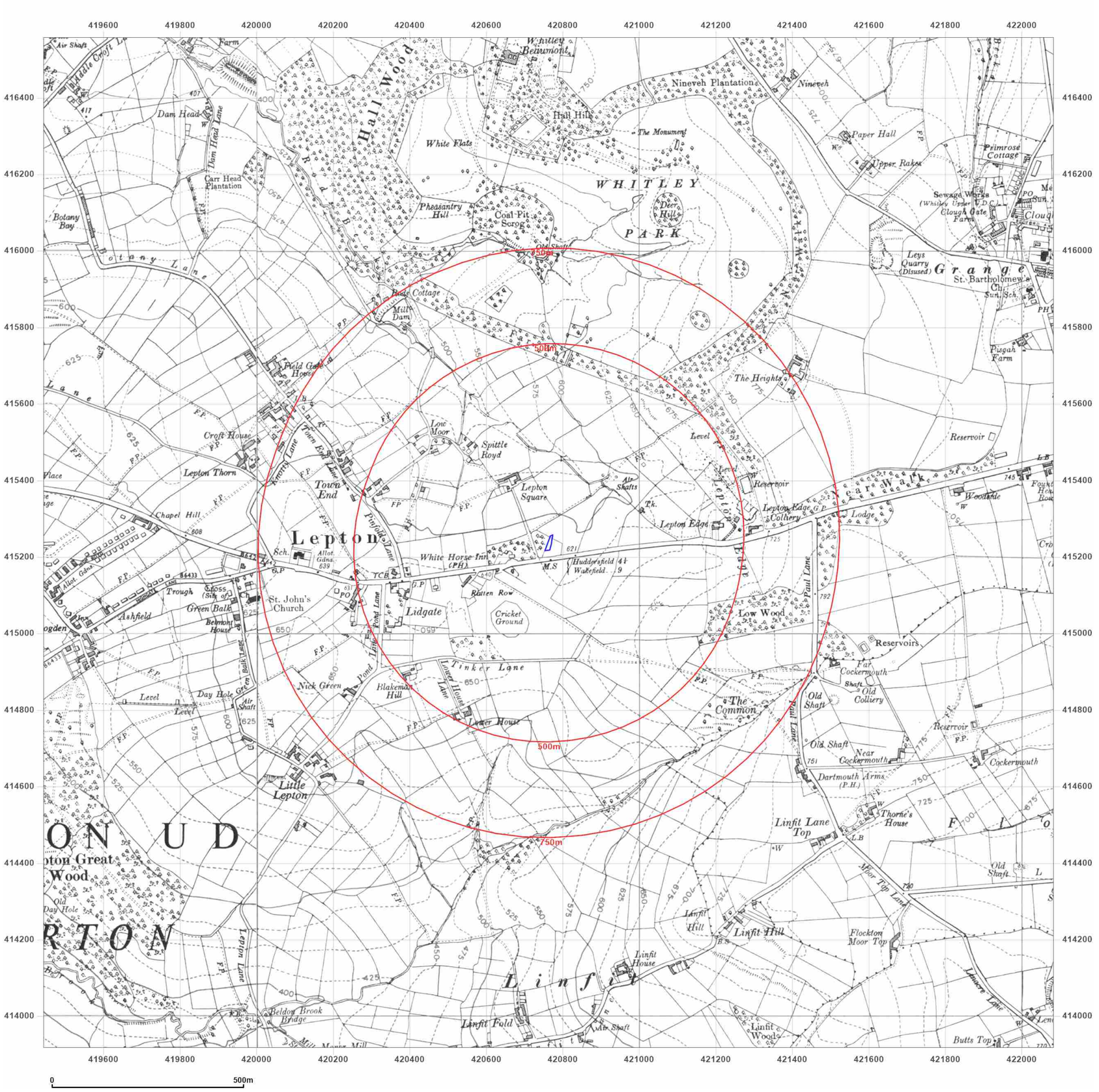
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: Provisional

Map date: **1951-1956**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1951
Revised 1951
Edition N/A
Copyright 1956
Levelled N/A

Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1955
Edition N/A
Copyright 1955
Levelled N/A

Surveyed N/A
Revised 1955
Edition N/A
Copyright 1955
Levelled N/A

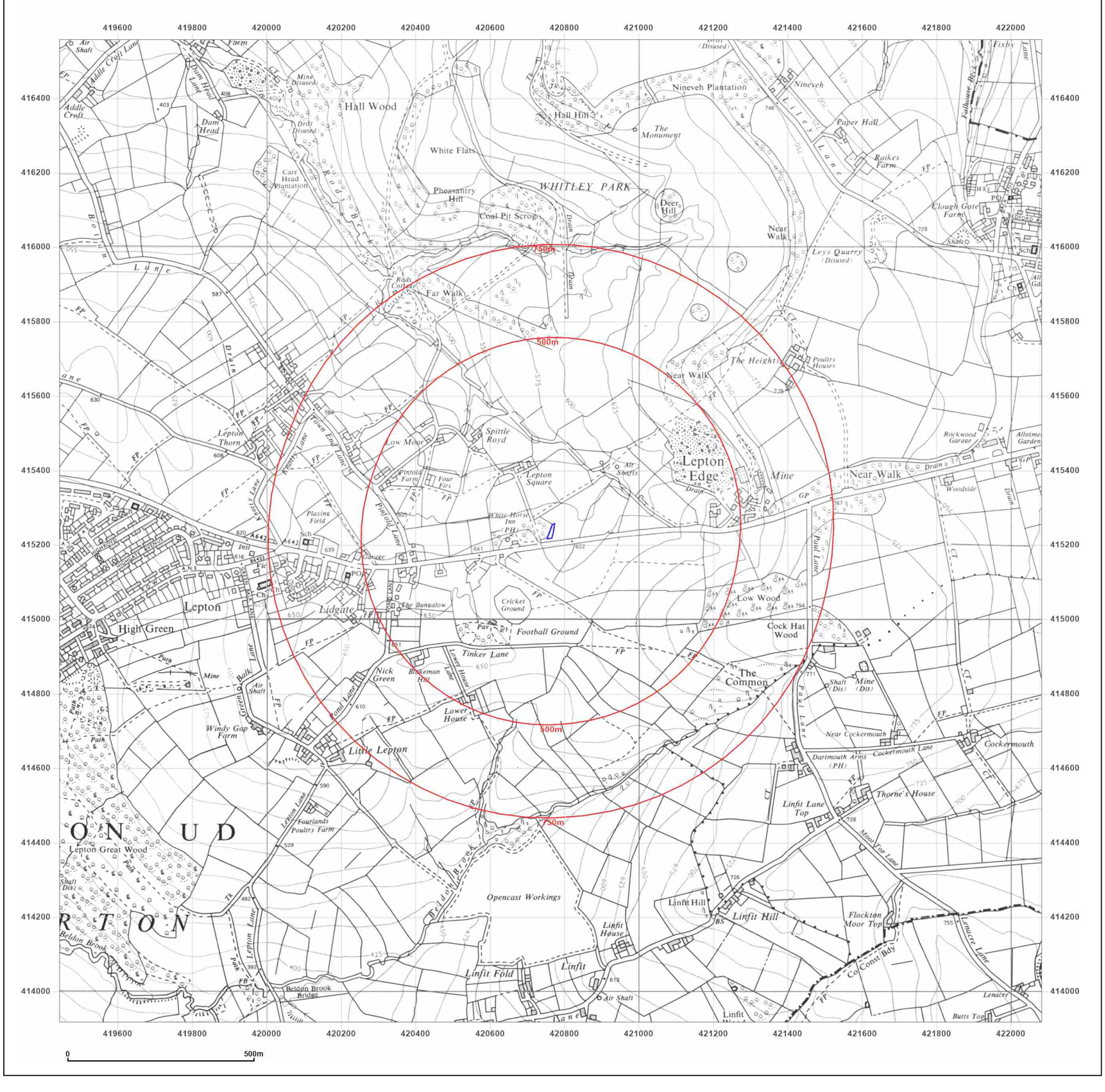
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: Provisional

Map date: **1965-1968**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1965 Revised 1965 Edition N/A Copyright N/A Levelled N/A	Surveyed 1966 Revised 1966 Edition N/A Copyright N/A Levelled N/A
Surveyed 1968 Revised 1968 Edition N/A Copyright N/A Levelled N/A	Surveyed 1967 Revised 1967 Edition N/A Copyright N/A Levelled N/A

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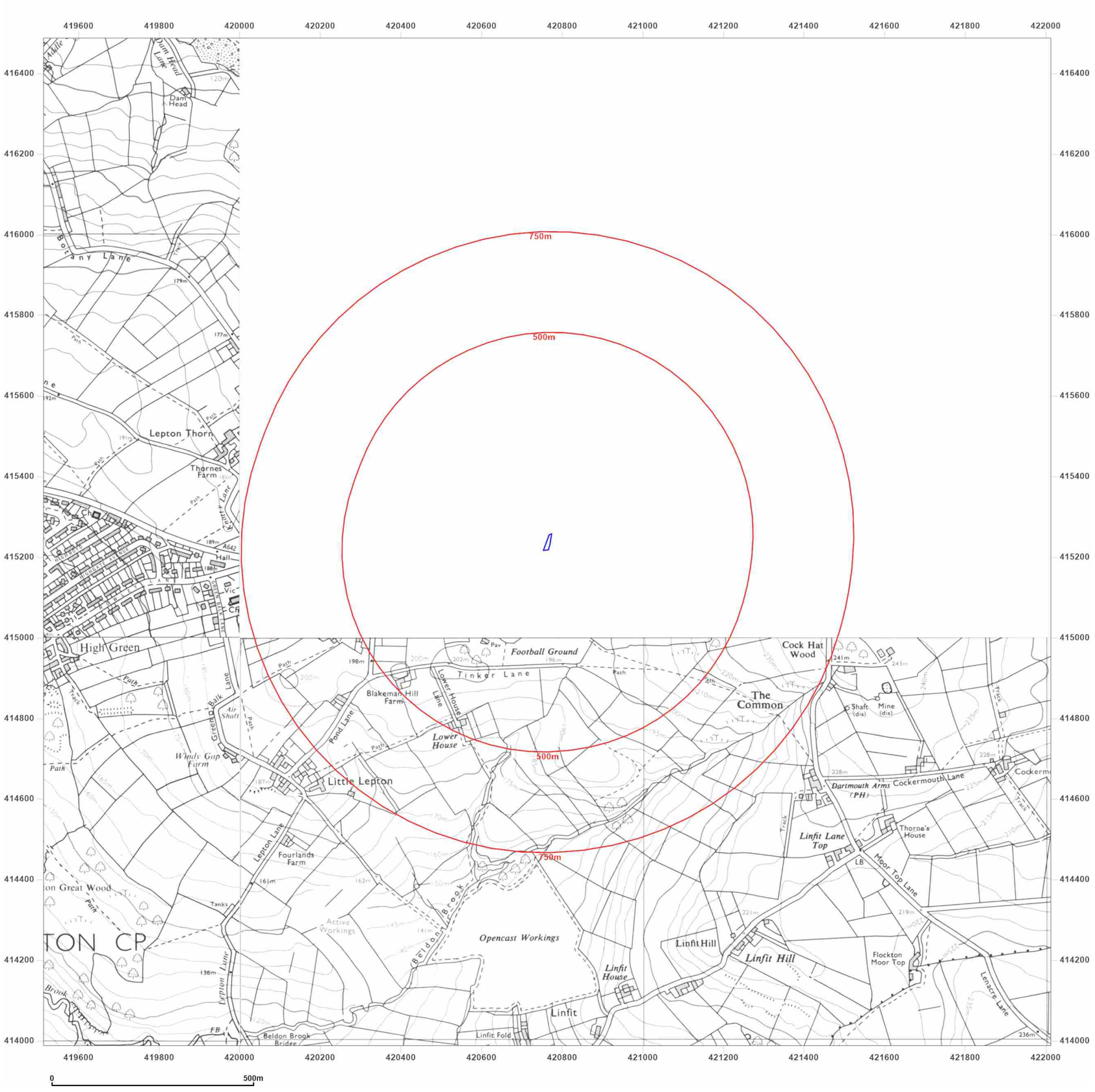
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: National Grid

Map date: **1975-1979**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1974
Revised 1975
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1977
Revised 1977
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1977
Revised 1979
Edition N/A
Copyright N/A
Levelled N/A

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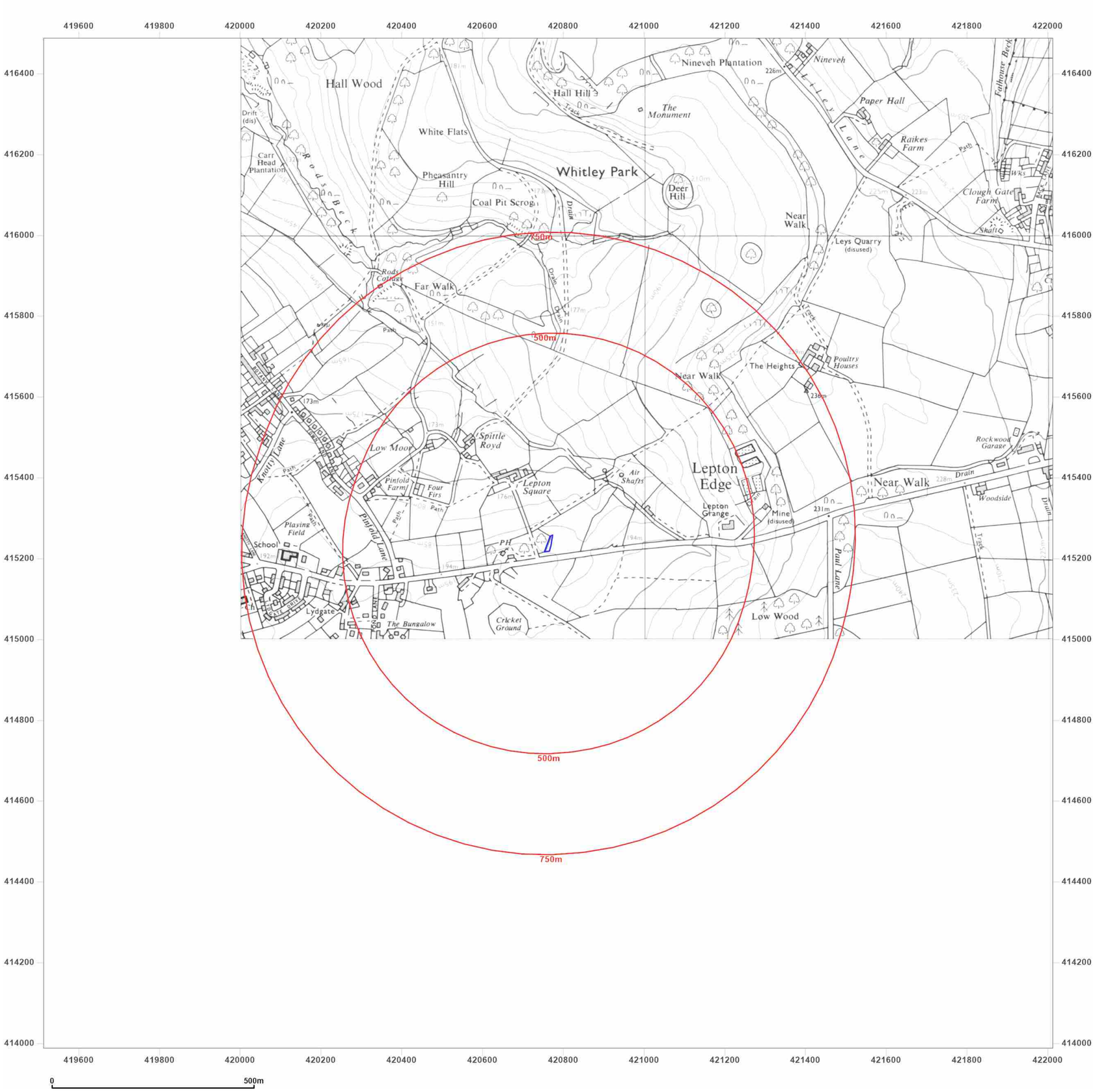
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: National Grid

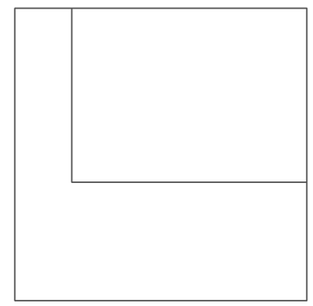
Map date: **1982**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1977
Revised 1982
Edition N/A
Copyright N/A
Levelled N/A



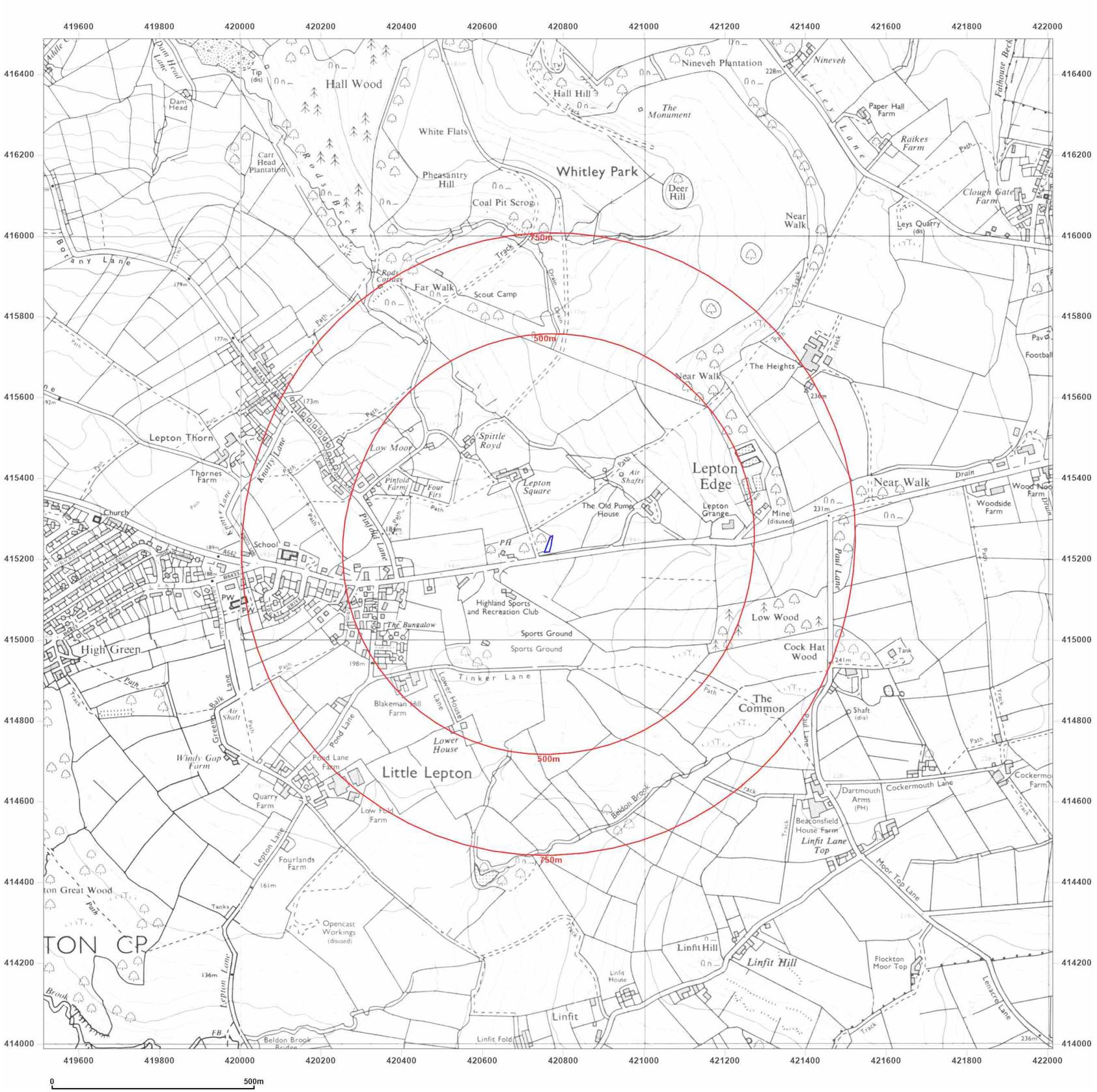
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: National Grid

Map date: **1988-1993**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1984 Revised 1988 Edition N/A Copyright N/A Levelled N/A	Surveyed 1991 Revised 1993 Edition N/A Copyright N/A Levelled N/A
Surveyed 1984 Revised 1990 Edition N/A Copyright N/A Levelled N/A	Surveyed 1990 Revised 1993 Edition N/A Copyright N/A Levelled N/A

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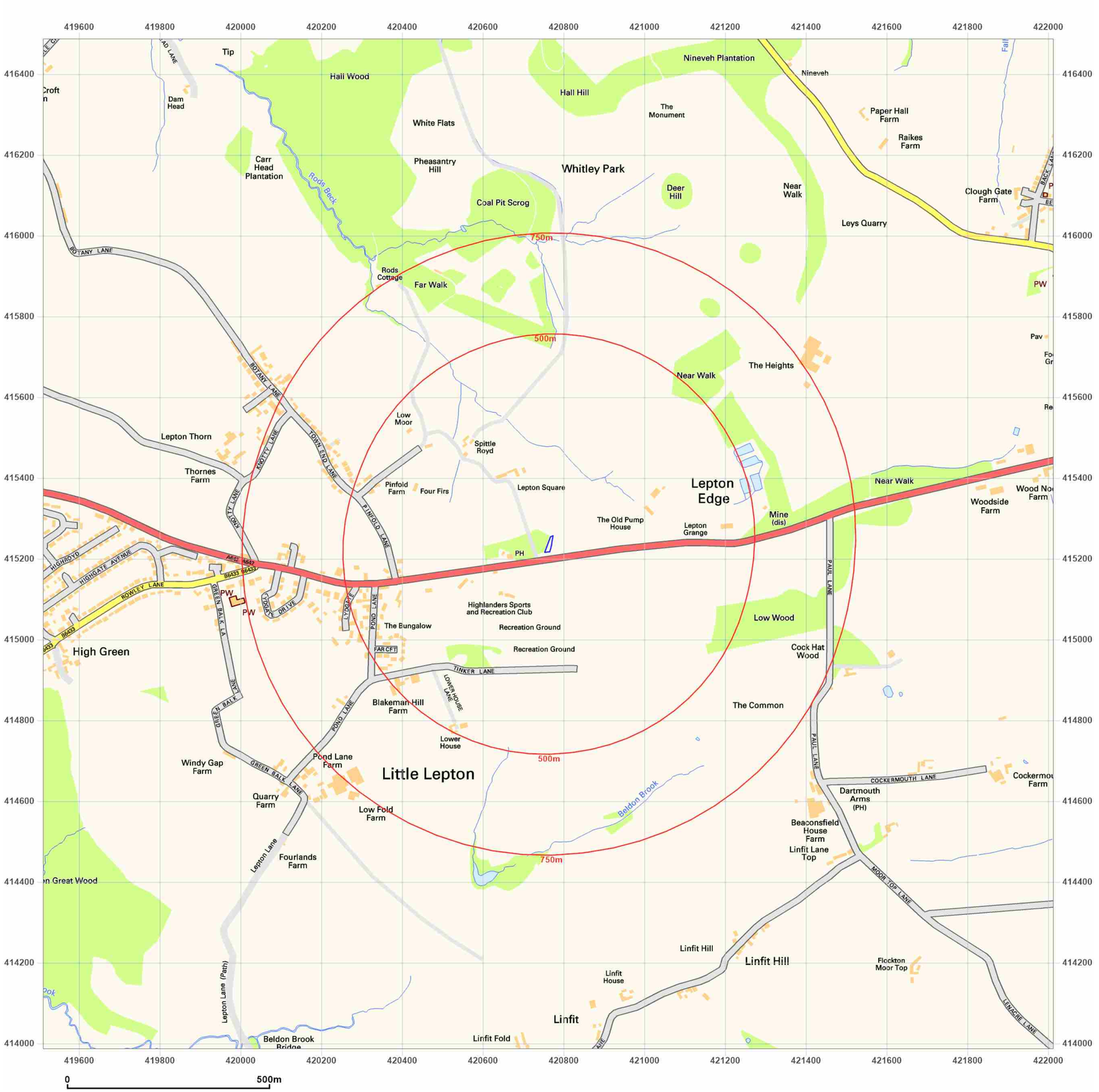
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
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2001

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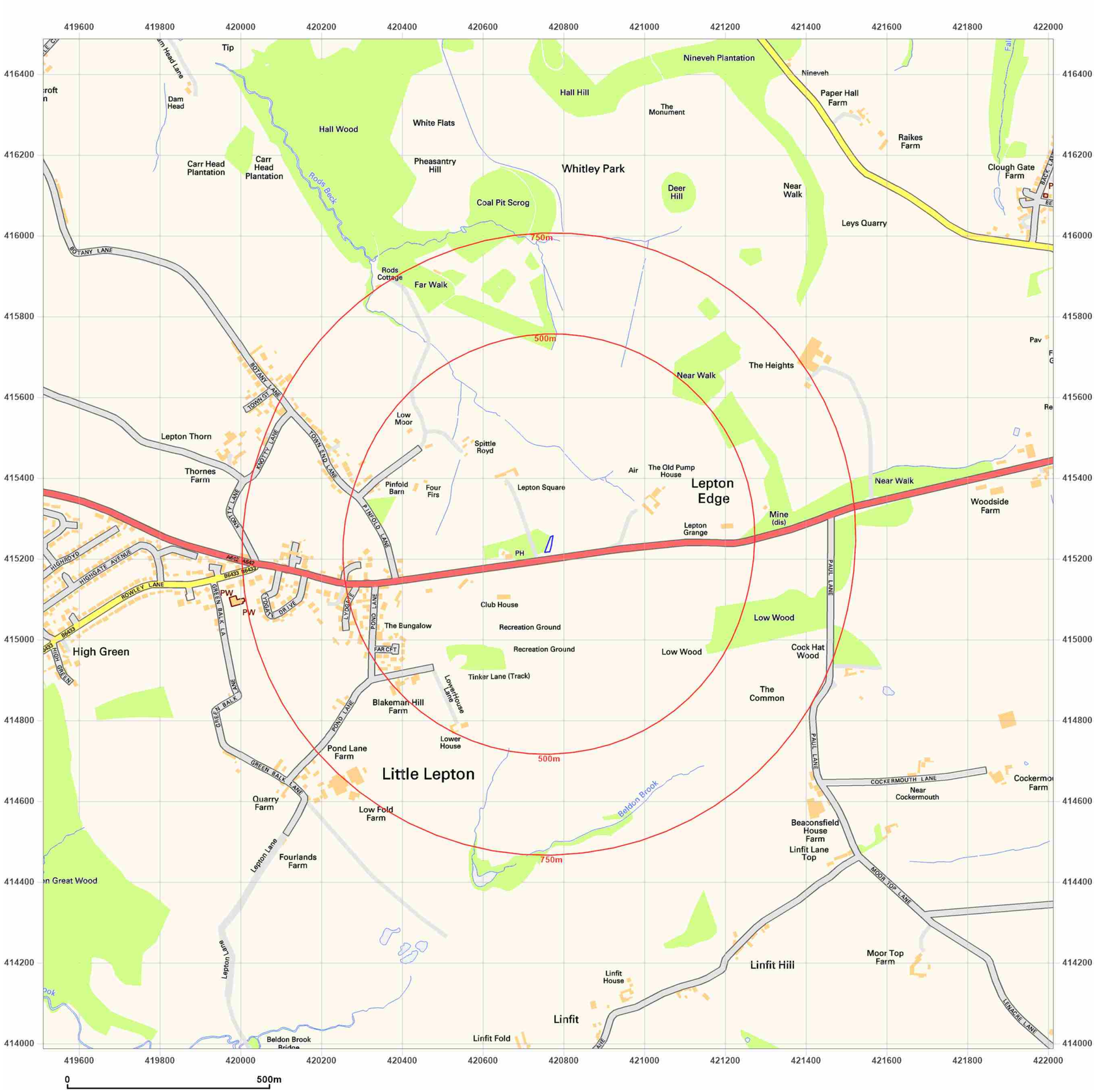
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Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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2010

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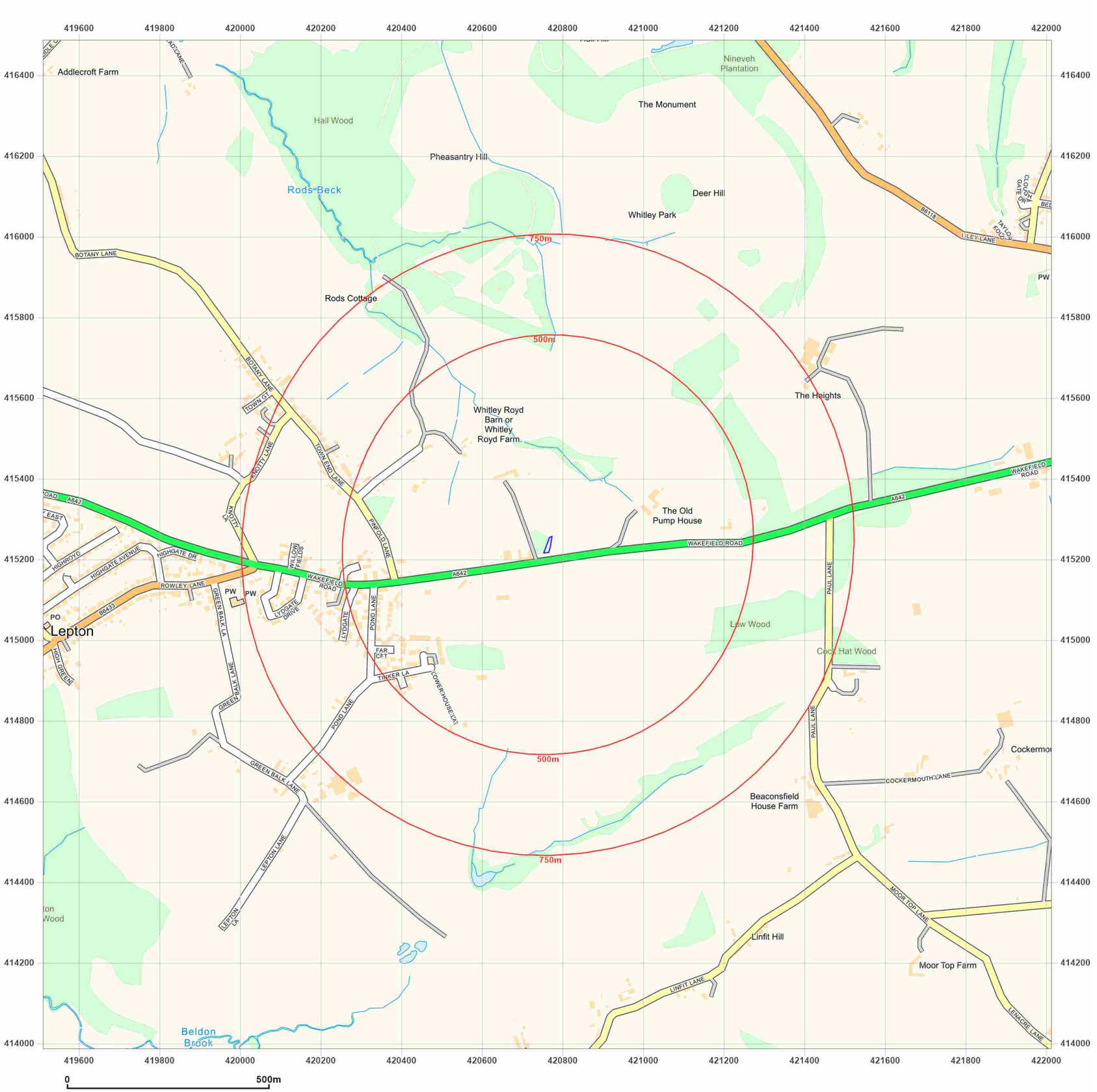
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EMAPSITE™

Site Details:

unspecified

Client Ref: EMS_1027184_1282661
Report Ref: EMS-1027184_1297415
Grid Ref: 420762, 415237

Map Name: National Grid

Map date: **2025**

Scale: 1:10,000

Printed at: 1:10,000

N
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2025

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Appendix C

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

unspecified

Order Details

Date: 03/06/2025

Your ref: EMS_1027184_1282661

Our Ref: EMS-1027184_1297416

Site Details

Location: 420764 415234

Area: 0.04 ha

Authority: Kirklees Council ↗



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Summary of findings p. 2 >

Aerial image p. 9 >

OS MasterMap site plan p.13 >

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	0	0	13	30	-
16	1.2	Historical tanks	0	0	0	0	-
16	1.3	Historical energy features	0	0	0	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
17 >	1.5 >	Historical garages >	0	0	0	4	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
18 >	2.1 >	Historical industrial land uses >	0	0	21	39	-
21	2.2	Historical tanks	0	0	0	0	-
21	2.3	Historical energy features	0	0	0	0	-
21	2.4	Historical petrol stations	0	0	0	0	-
21 >	2.5 >	Historical garages >	0	0	0	4	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
23	3.1	Active or recent landfill	0	0	0	0	-
23	3.2	Historical landfill (BGS records)	0	0	0	0	-
24	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
24	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
24	3.5	Historical waste sites	0	0	0	0	-
24	3.6	Licensed waste sites	0	0	0	0	-
24 >	3.7 >	Waste exemptions >	0	0	2	60	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	4.1 >	Recent industrial land uses >	0	0	2	-	-
31 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
31	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
31	4.5	Sites determined as Contaminated Land	0	0	0	0	-

31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
32	4.7	Regulated explosive sites	0	0	0	0	-
32	4.8	Hazardous substance storage/usage	0	0	0	0	-
32	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
32	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
32 >	**4.11 >**	**Licensed pollutant release (Part A(2)/B) >**	0	0	0	2	-
33	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33 >	**4.13 >**	**Licensed Discharges to controlled waters >**	0	0	0	2	-
34	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
34	4.15	Pollutant release to public sewer	0	0	0	0	-
34	4.16	List 1 Dangerous Substances	0	0	0	0	-
34	4.17	List 2 Dangerous Substances	0	0	0	0	-
34	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
35	4.19	Pollution inventory substances	0	0	0	0	-
35	4.20	Pollution inventory waste transfers	0	0	0	0	-
35	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
36	5.1	Superficial aquifer	None (within 500m)				
37 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
39 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
40	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
40	5.5	Groundwater vulnerability- local information	None (within 0m)				
41	5.6	Groundwater abstractions	0	0	0	0	0
42 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	4
43	5.8	Potable abstractions	0	0	0	0	0
43	5.9	Source Protection Zones	0	0	0	0	-
43	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
44 >	**6.1 >**	**Water Network (OS MasterMap) >**	0	0	7	-	-

45 >	6.2 >	Surface water features >	0	0	6	-	-
45 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
46 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
46 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
47	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
47	7.2	Historical Flood Events	0	0	0	-	-
47	7.3	Flood Defences	0	0	0	-	-
48	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
48	7.5	Flood Storage Areas	0	0	0	-	-
49	7.6	Flood Zone 2	None (within 50m)				
49	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
50	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
51 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
52	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
53	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
53	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
53	10.4	Special Protection Areas (SPA)	0	0	0	0	0
53	10.5	National Nature Reserves (NNR)	0	0	0	0	0
54	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
54 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	1
54	10.8	Biosphere Reserves	0	0	0	0	0
54	10.9	Forest Parks	0	0	0	0	0
55	10.10	Marine Conservation Zones	0	0	0	0	0
55 >	10.11 >	Green Belt >	1	0	0	0	0
55	10.12	Proposed Ramsar sites	0	0	0	0	0

55	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
56	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
56	10.15	Nitrate Sensitive Areas	0	0	0	0	0
56 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	2
57 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
58	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
59	11.1	World Heritage Sites	0	0	0	-	-
60	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
60	11.3	National Parks	0	0	0	-	-
60 >	11.4 >	Listed Buildings >	0	1	0	-	-
61	11.5	Conservation Areas	0	0	0	-	-
61	11.6	Scheduled Ancient Monuments	0	0	0	-	-
61	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
62 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
63	12.2	Open Access Land	0	0	0	-	-
63	12.3	Tree Felling Licences	0	0	0	-	-
63 >	12.4 >	Environmental Stewardship Schemes >	1	1	0	-	-
63	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
64 >	13.1 >	Priority Habitat Inventory >	1	1	0	-	-
65	13.2	Habitat Networks	0	0	0	-	-
65	13.3	Open Mosaic Habitat	0	0	0	-	-
65	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
66 >	14.1 >	10k Availability >	Identified (within 500m)				
67 >	14.2 >	Artificial and made ground (10k) >	0	0	1	9	-
69 >	14.3 >	Superficial geology (10k) >	0	0	0	1	-

70	14.4	Landslip (10k)	0	0	0	0	-
71 >	14.5 >	Bedrock geology (10k) >	2	0	4	7	-
72 >	14.6 >	Bedrock faults and other linear features (10k) >	0	1	1	17	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
74 >	15.1 >	50k Availability >	Identified (within 500m)				
75 >	15.2 >	Artificial and made ground (50k) >	0	0	0	3	-
76	15.3	Artificial ground permeability (50k)	0	0	-	-	-
77	15.4	Superficial geology (50k)	0	0	0	0	-
77	15.5	Superficial permeability (50k)	None (within 50m)				
77	15.6	Landslip (50k)	0	0	0	0	-
77	15.7	Landslip permeability (50k)	None (within 50m)				
78 >	15.8 >	Bedrock geology (50k) >	2	0	3	5	-
79 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
79 >	15.10 >	Bedrock faults and other linear features (50k) >	0	1	1	10	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
81 >	16.1 >	BGS Boreholes >	0	0	1	-	-
Page	Section	Natural ground subsidence >					
82 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
83 >	17.2 >	Running sands >	Negligible (within 50m)				
84 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
85 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
86 >	17.5 >	Landslides >	Very low (within 50m)				
87 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	18.1 >	BritPits >	0	0	0	5	-
91	18.2	Surface ground workings	0	0	0	-	-
92 >	18.3 >	Underground workings >	0	0	12	8	26
94	18.4	Underground mining extents	0	0	0	0	-
94 >	18.5 >	Historical Mineral Planning Areas >	1	1	0	1	-

94	18.6	Non-coal mining	0	0	0	0	0
95	18.7	JPB mining areas	None (within 0m)				
95	18.8	The Coal Authority non-coal mining	0	0	0	0	-
95	18.9	Researched mining	0	0	0	0	-
95	18.10	Mining record office plans	0	0	0	0	-
96	18.11	BGS mine plans	0	0	0	0	-
96 >	**18.12 >**	**Coal mining >**	Identified (within 0m)				
96	18.13	Brine areas	None (within 0m)				
96	18.14	Gypsum areas	None (within 0m)				
96	18.15	Tin mining	None (within 0m)				
97	18.16	Clay mining	None (within 0m)				
Page	Section	**Ground cavities and sinkholes >**	On site	0-50m	50-250m	250-500m	500-2000m
98	19.1	Natural cavities	0	0	0	0	-
99 >	**19.2 >**	**Mining cavities >**	0	0	0	0	1
99	19.3	Reported recent incidents	0	0	0	0	-
99	19.4	Historical incidents	0	0	0	0	-
Page	Section	**Radon >**					
100 >	**20.1 >**	**Radon >**	Less than 1% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
102 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	2	0	-	-	-
102	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
102	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
103	22.1	Underground railways (London)	0	0	0	-	-
103	22.2	Underground railways (Non-London)	0	0	0	-	-
103	22.3	Railway tunnels	0	0	0	-	-
103	22.4	Historical railway and tunnel features	0	0	0	-	-
103	22.5	Royal Mail tunnels	0	0	0	-	-
104	22.6	Historical railways	0	0	0	-	-

104	22.7	Railways	0	0	0	-	-
104	22.8	Crossrail 2	0	0	0	0	-
104	22.9	HS2	0	0	0	0	-

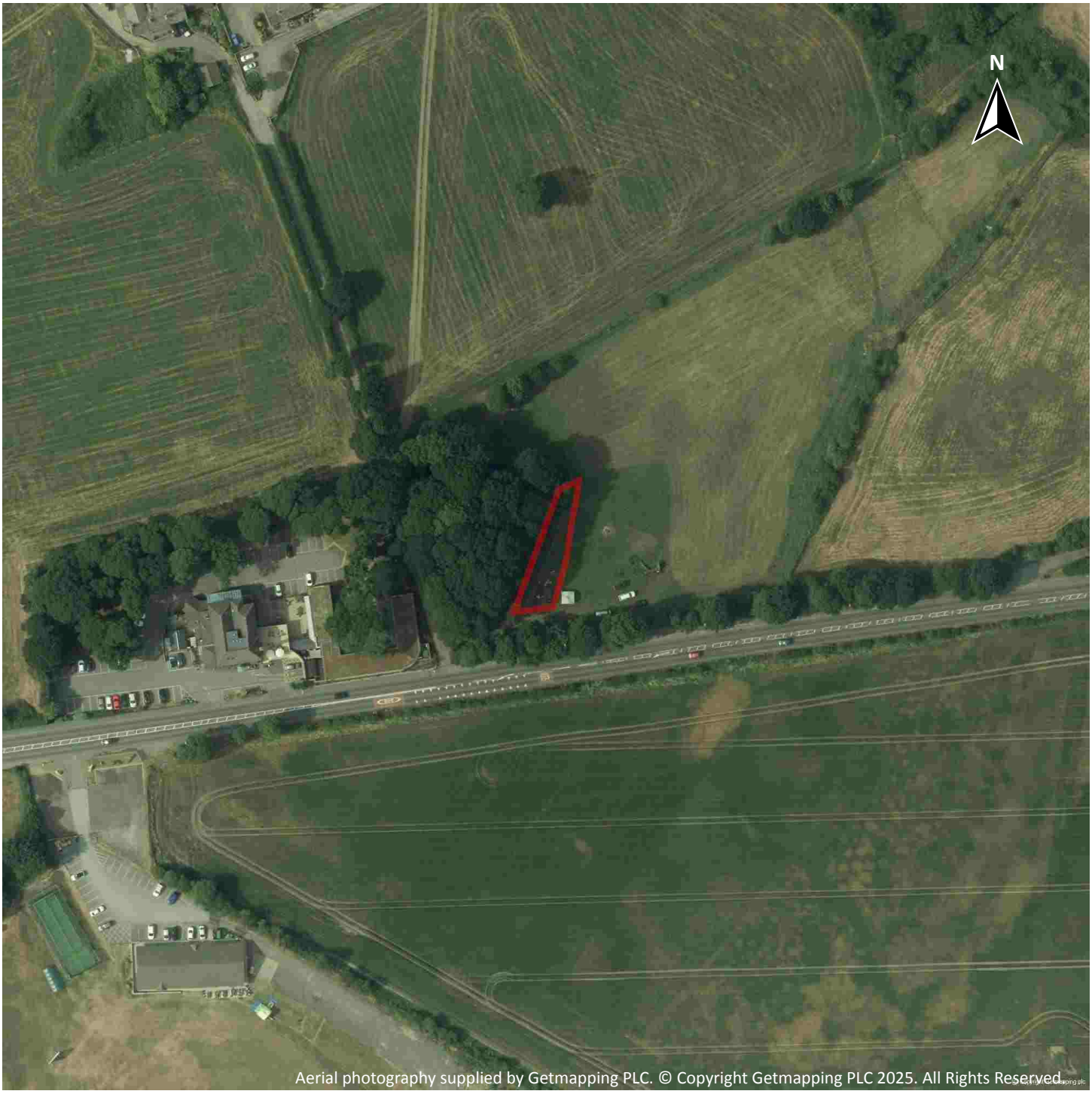
Recent aerial photograph



Capture Date: 30/05/2021

Site Area: 0.04ha

Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.04ha

Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.04ha

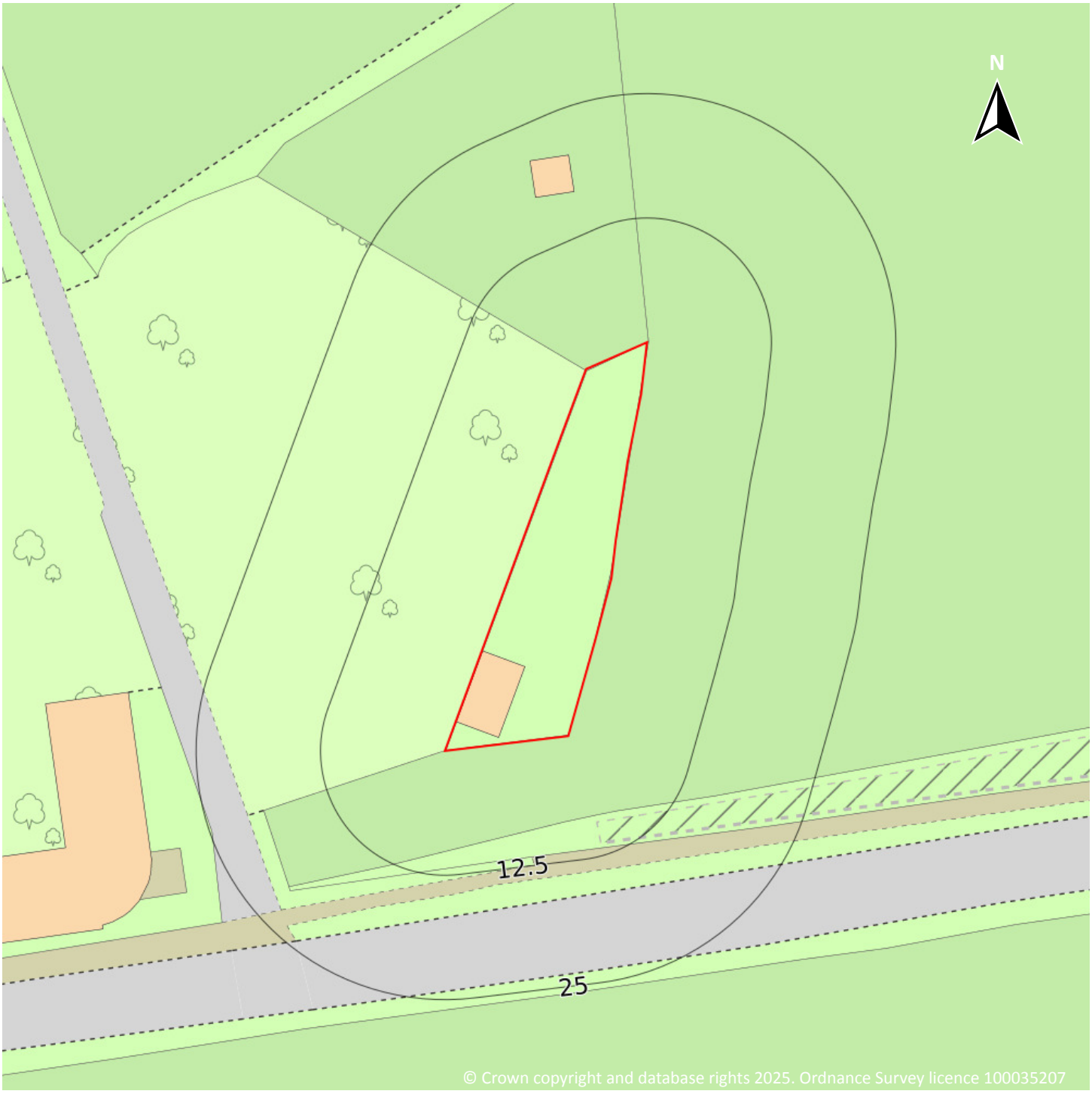
Recent site history - 1999 aerial photograph



Capture Date: 10/07/1999

Site Area: 0.04ha

OS MasterMap site plan



Site Area: 0.04ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	43

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
1	119m SW	Smithy	1904	1454735

ID	Location	Land use	Dates present	Group ID
A	199m NE	Air Shafts	1948	1502981
A	200m NE	Air Shafts	1904	1526752
A	200m NE	Air Shafts	1938	1559986
A	200m NE	Air Shafts	1951 - 1993	1541680
B	209m E	Old Pump House	1993	1455410
A	220m NE	Air Shafts	1951 - 1993	1501192
A	221m NE	Air Shafts	1948	1502653
A	221m NE	Air Shafts	1904	1530952
A	221m NE	Air Shafts	1938	1572119
B	231m E	Pumping Station	1938 - 1948	1515362
B	239m E	Unspecified Tank	1938 - 1948	1546481
B	241m E	Unspecified Tank	1951	1555644
C	281m NE	Unspecified Mine	1966	1442788
2	296m NE	Unspecified Old Shaft	1904	1446419
D	297m SE	Unspecified Heap	1948	1575938
D	300m SE	Unspecified Heaps	1904	1548124
D	300m SE	Unspecified Heaps	1938	1574527
D	300m SE	Unspecified Heap	1951	1481896
E	318m N	Unspecified Old Quarry	1892	1437720
E	318m N	Unspecified Quarry	1904	1464044
C	345m E	Refuse Heap	1966	1481944
C	375m NE	Colliery	1951	1570760
C	395m E	Colliery	1948	1542533
C	396m E	Sand Pit	1892	1449190
C	397m E	Colliery	1938	1533820
F	399m NE	Unspecified Ground Workings	1948	1555917
F	399m NE	Unspecified Ground Workings	1951	1492313
F	402m NE	Unspecified Ground Workings	1938	1501605

ID	Location	Land use	Dates present	Group ID
G	408m NE	Unspecified Level	1938	1501037
G	409m NE	Unspecified Level	1951	1564970
C	417m E	Refuse Heap	1938	1523972
C	417m E	Colliery	1892 - 1904	1490884
C	436m E	Unspecified Level	1951	1575893
C	439m NE	Unspecified Level	1938	1507081
C	448m E	Railway Sidings	1938 - 1948	1522216
C	449m E	Railway Signal Works	1951	1433959
G	459m NE	Unspecified Level	1948	1503432
C	462m E	Refuse Heap	1904	1434296
H	465m W	Garage	1966	1448930
C	478m E	Unspecified Level	1948	1499014
C	496m E	Unspecified Heap	1948	1507116
C	500m E	Unspecified Disused Mine	1982 - 1993	1543479

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	0

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-

grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	4

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
H	460m W	Garage	1996	50413
H	471m W	Garage	1961	49047
H	471m W	Garage	1978	49106
H	487m W	Garage	1991	47885

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m	60

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18 >**

ID	Location	Land Use	Date	Group ID
1	119m SW	Smithy	1904	1454735
A	199m NE	Air Shafts	1948	1502981
A	200m NE	Air Shafts	1938	1559986

ID	Location	Land Use	Date	Group ID
A	200m NE	Air Shafts	1904	1526752
A	200m NE	Air Shafts	1993	1541680
A	200m NE	Air Shafts	1982	1541680
A	200m NE	Air Shafts	1966	1541680
A	200m NE	Air Shafts	1951	1541680
B	209m E	Old Pump House	1993	1455410
A	220m NE	Air Shafts	1993	1501192
A	220m NE	Air Shafts	1982	1501192
A	220m NE	Air Shafts	1966	1501192
A	220m NE	Air Shafts	1951	1501192
A	221m NE	Air Shafts	1948	1502653
A	221m NE	Air Shafts	1938	1572119
A	221m NE	Air Shafts	1904	1530952
B	231m E	Pumping Station	1948	1515362
B	232m E	Pumping Station	1938	1515362
B	239m E	Unspecified Tank	1948	1546481
B	240m E	Unspecified Tank	1938	1546481
B	241m E	Unspecified Tank	1951	1555644
C	281m NE	Unspecified Mine	1966	1442788
2	296m NE	Unspecified Old Shaft	1904	1446419
D	297m SE	Unspecified Heap	1948	1575938
D	297m SE	Unspecified Heap	1948	1575938
D	300m SE	Unspecified Heaps	1938	1574527
D	300m SE	Unspecified Heaps	1904	1548124
D	300m SE	Unspecified Heap	1951	1481896
E	318m N	Unspecified Quarry	1904	1464044
E	318m N	Unspecified Old Quarry	1892	1437720
C	345m E	Refuse Heap	1966	1481944

ID	Location	Land Use	Date	Group ID
C	375m NE	Colliery	1951	1570760
C	395m E	Colliery	1948	1542533
C	395m E	Colliery	1948	1542533
C	396m E	Sand Pit	1892	1449190
C	397m E	Colliery	1938	1533820
F	399m NE	Unspecified Ground Workings	1948	1555917
F	399m NE	Unspecified Ground Workings	1948	1555917
F	399m NE	Unspecified Ground Workings	1951	1492313
F	402m NE	Unspecified Ground Workings	1938	1501605
G	408m NE	Unspecified Level	1938	1501037
G	409m NE	Unspecified Level	1951	1564970
C	417m E	Refuse Heap	1938	1523972
C	417m E	Colliery	1892	1490884
C	419m E	Colliery	1904	1490884
C	436m E	Unspecified Level	1951	1575893
C	439m NE	Unspecified Level	1938	1507081
C	448m E	Railway Sidings	1948	1522216
C	449m E	Railway Signal Works	1951	1433959
C	450m E	Railway Sidings	1938	1522216
G	459m NE	Unspecified Level	1948	1503432
G	459m NE	Unspecified Level	1948	1503432
C	462m E	Refuse Heap	1904	1434296
H	465m W	Garage	1966	1448930
C	478m E	Unspecified Level	1948	1499014
C	478m E	Unspecified Level	1948	1499014
C	496m E	Unspecified Heap	1948	1507116
C	496m E	Unspecified Heap	1948	1507116
C	500m E	Unspecified Disused Mine	1993	1543479

ID	Location	Land Use	Date	Group ID
C	500m E	Unspecified Disused Mine	1982	1543479

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	0

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	4

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18 >**

ID	Location	Land Use	Date	Group ID
H	460m W	Garage	1996	50413
H	471m W	Garage	1961	49047
H	471m W	Garage	1978	49106
H	487m W	Garage	1991	47885

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	62

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 23 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	236m E	-	WEX304497	Using waste exemption	Not on a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
A	244m E	The Old Pump House, Wakefield Road, Lepton, Huddersfield, Hd8 0ly	WEX361945	Using waste exemption	Not on a farm	Use of waste in construction
B	425m W	-	WEX406676	Disposing of waste exemption	Not on a farm	Burning waste in the open
B	425m W	-	WEX406676	Using waste exemption	Not on a farm	Use of waste in construction
B	425m W	-	WEX406676	Using waste exemption	Not on a farm	Use of waste in the construction of entertainment or educational installations etc
B	425m W	-	WEX406676	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
B	425m W	-	WEX406676	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
B	425m W	-	WEX406676	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
B	425m W	-	WEX406676	Disposing of waste exemption	Not on a farm	Disposal by incineration
B	425m W	-	WEX406676	Using waste exemption	Not on a farm	Use of mulch
B	425m W	-	WEX406676	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
B	425m W	-	WEX406676	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	425m W	-	WEX136519	Using waste exemption	Not on a farm	Use of waste in construction
B	425m W	-	WEX136519	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
B	425m W	-	WEX136519	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	425m W	-	WEX136519	Using waste exemption	Not on a farm	Use of waste in the construction of entertainment or educational installations etc

ID	Location	Site	Reference	Category	Sub-Category	Description
B	425m W	-	WEX136519	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
B	425m W	-	WEX136519	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
B	425m W	-	WEX136519	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Treating waste exemption	Agricultural waste only	Aerobic composting and associated prior treatment
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Using waste exemption	Agricultural waste only	Spreading waste on non-agricultural land to confer benefit
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Using waste exemption	Agricultural waste only	Spreading of plant matter to confer benefit
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Using waste exemption	Non-agricultural waste only	Use of waste in the construction of entertainment or educational installations etc
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Using waste exemption	Agricultural waste only	Use of mulch
B	425m W	-	WEX136519	Using waste exemption	Not on a farm	Use of mulch
B	425m W	-	WEX136519	Disposing of waste exemption	Not on a farm	Burning waste in the open
B	425m W	-	WEX136519	Disposing of waste exemption	Not on a farm	Disposal by incineration

ID	Location	Site	Reference	Category	Sub-Category	Description
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
B	425m W	Town End Lepton	EPR/NE5942ZB/A001	Disposing of waste exemption	Agricultural waste only	Disposal by incineration
B	425m W	-	WEX277936	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
B	425m W	-	WEX277936	Using waste exemption	Not on a farm	Use of waste in construction
B	425m W	-	WEX277936	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
B	425m W	-	WEX277936	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	425m W	-	WEX277936	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
B	425m W	-	WEX277936	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
B	425m W	-	WEX277936	Using waste exemption	Not on a farm	Use of waste in the construction of entertainment or educational installations etc
B	425m W	-	WEX277936	Disposing of waste exemption	Not on a farm	Burning waste in the open
B	425m W	-	WEX277936	Disposing of waste exemption	Not on a farm	Disposal by incineration
B	425m W	-	WEX277936	Using waste exemption	Not on a farm	Use of mulch
C	477m SW	Blakeman Hill Farm Tinker Lane Huddersfield Hd8 0lr	EPR/AH0572KW/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
C	477m SW	Blakeman Hill Farm Tinker Lane Huddersfield Hd8 0lr	EPR/AH0572KW/A001	Storing waste exemption	Agricultural waste only	Storage of waste in secure containers

ID	Location	Site	Reference	Category	Sub-Category	Description
C	477m SW	Blakeman Hill Farm Tinker Lane Huddersfield Hd8 0lr	EPR/AH0572KW/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	477m SW	Blakeman Hill Farm Tinker Lane Huddersfield Hd8 0lr	EPR/AH0572KW/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
C	477m SW	Blakeman Hill Farm Tinker Lane Huddersfield Hd8 0lr	EPR/AH0572KW/A001	Using waste exemption	Agricultural waste only	Use of waste derived biodiesel as fuel
C	477m SW	Blakeman Hill Farm Tinker Lane Huddersfield Hd8 0lr	EPR/AH0572KW/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
C	477m SW	Blakeman Hill Farm Tinker Lane Huddersfield Hd8 0lr	EPR/AH0572KW/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	477m SW	Blakeman Hill Farm Tinker Lane Huddersfield Hd8 0lr	EPR/AH0572KW/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX016270	Disposing of waste exemption	On a farm	Burning waste in the open
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX016270	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX174246	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX174246	Storing waste exemption	On a farm	Storage of waste in secure containers
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX174246	Using waste exemption	On a farm	Use of waste in construction
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX174246	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX016270	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX016270	Storing waste exemption	On a farm	Storage of waste in secure containers
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX016270	Using waste exemption	On a farm	Use of waste in construction
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX016270	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX174246	Disposing of waste exemption	On a farm	Burning waste in the open
C	478m SW	Blakeman Hill Farm, Tinker Lane, Lepton, Huddersfield, Hd8 0lr	WEX174246	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

Licensed pollutant release (Part A(2)/B)

Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m	2

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 30 >**

ID	Location	Company	Address	Activity	Category
A	202m NE	Air Shaft	West Yorkshire, HD8	Unspecified Quarries Or Mines	Extractive Industries
A	231m NE	Air Shaft	West Yorkshire, HD8	Unspecified Quarries Or Mines	Extractive Industries

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 30 >**

ID	Location	Company	Address	LPG	Status
C	461m W	BP	Wakefield Road, Lepton, Huddersfield, West Yorkshire, HD8 0LU	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	2

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 30 >**

ID	Location	Address	Details	
C	447m W	United Cooperatives Ltd, Wakefield Road, Lepton, Huddersfield, HD8 0UU	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	448m W	Lepton Service Station, Wakefield Road, Lepton, Huddersfield, HD8 0LU	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	**0**

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m	**2**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 30 >**

ID	Location	Address	Details	
B	330m E	PROPOSEDDETACHEDBUNGALOW,ADJACENTTOLEPTONGRANGE,LEPTON,HUDDERSFIELD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: C4147 Permit Version: 1 Receiving Water: LAND ADJACENT TO THE BUNGALOW	Status: TRANSFERRED FROM COPA 1974 Issue date: 19/02/1986 Effective Date: 19/02/1986 Revocation Date: 25/07/2012
B	330m E	PROPOSEDDETACHEDBUNGALOW,ADJACENTTOLEPTONGRANGE,LEPTON,HUDDERSFIELD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: C4147 Permit Version: 2 Receiving Water: LAND ADJACENT TO THE BUNGALOW	Status: TRANSFERRED FROM COPA 1974 Issue date: 26/07/2012 Effective Date: 26/07/2012 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer

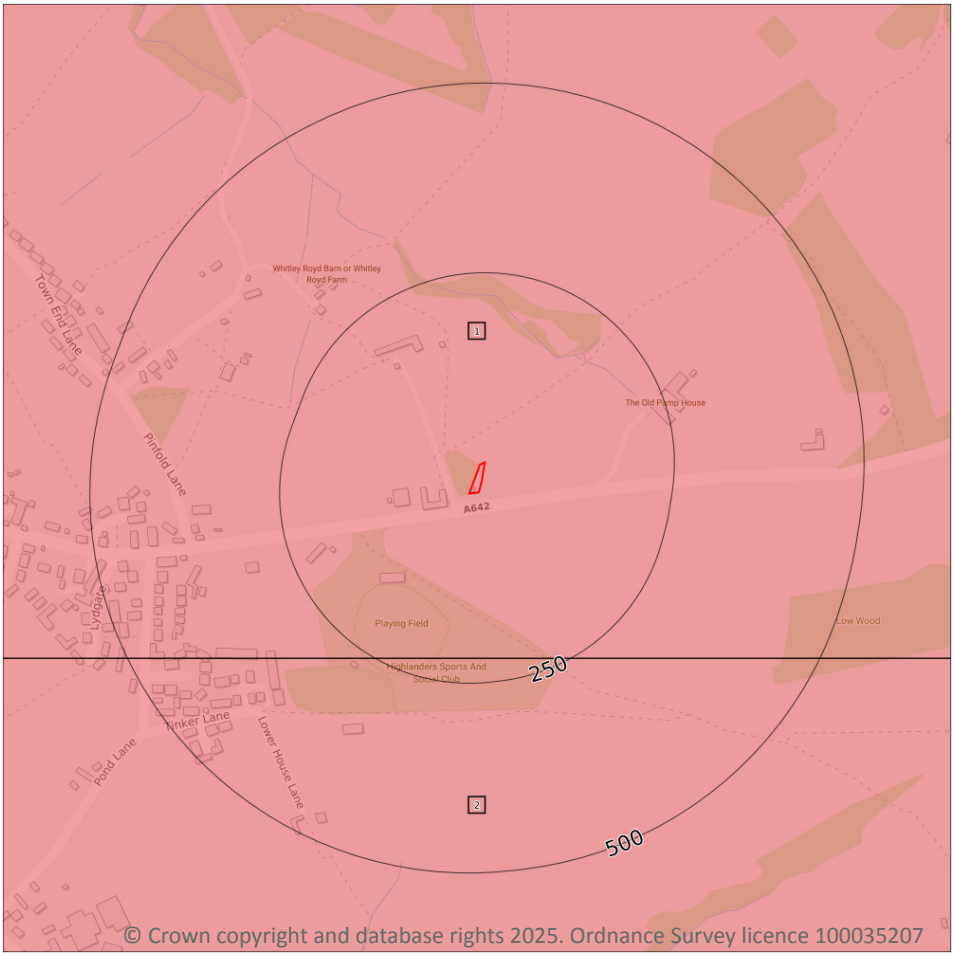
5.1 Superficial aquifer

Records within 500m	0

Aquifer status of groundwater held within superficial geology.

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m **2**

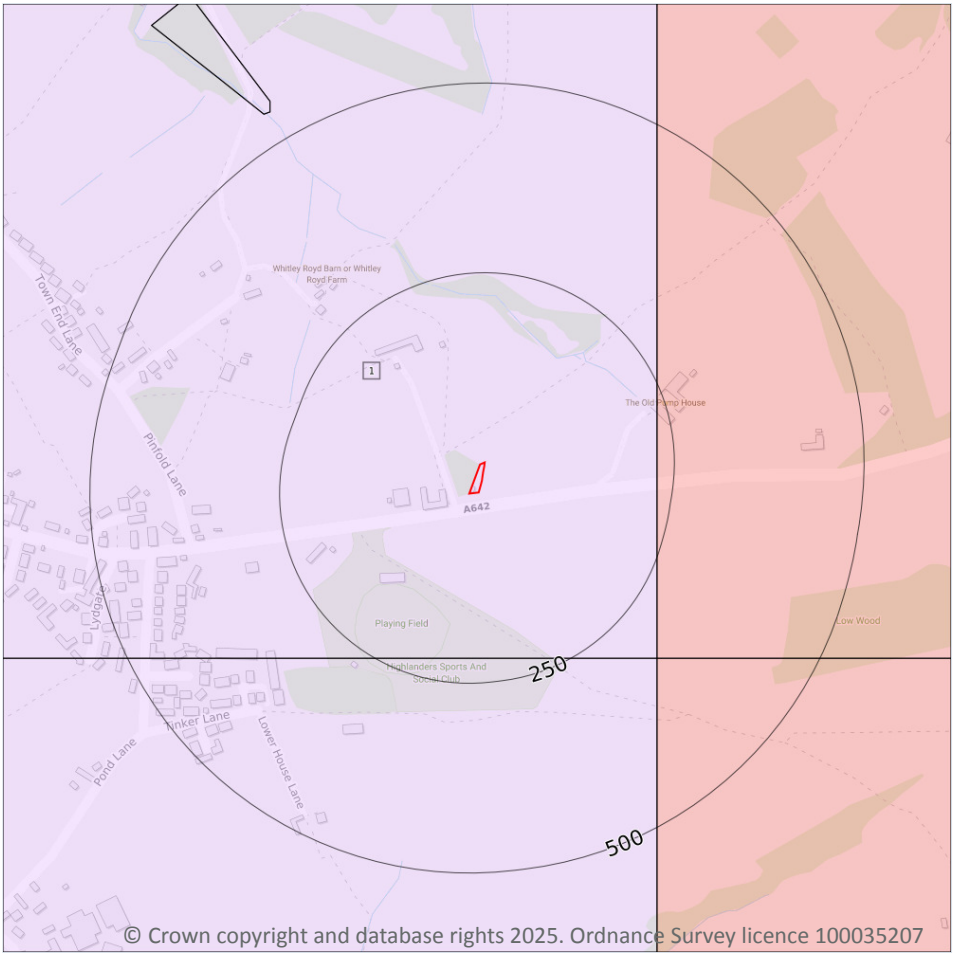
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 37 >**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	217m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 39 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures**

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site	**0**

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	4

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 41 >**

ID	Location	Details	
-	1856m SW	Status: Historical Licence No: 2/27/11/078 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: BELDON BROOK Data Type: Point Name: SPRINGWOOD ENGINEERING CO LTD Easting: 419200 Northing: 414200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 30/06/1980 Version End Date: -
-	1856m SW	Status: Historical Licence No: 2/27/11/078 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: BELDON BROOK - FENAY BRIDGE Data Type: Point Name: RELIANCE GEAR COMPANY LIMITED Easting: 419200 Northing: 414200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 18/06/2002 Version End Date: -
-	1856m SW	Status: Historical Licence No: 2/27/11/078 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: BELDON BROOK - FENAY BRIDGE Data Type: Point Name: RELIANCE GEAR CO LTD Easting: 419200 Northing: 414200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 18/06/2002 Version End Date: -
-	1859m SW	Status: Historical Licence No: 2/27/11/078 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: BELDON BROOK-FENAY BRIDGE-HUDDERSFIELD Data Type: Point Name: MALLINSON Easting: 419190 Northing: 414210	Annual Volume (m^3): 7728 Max Daily Volume (m^3): 254.58 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 20/06/2004 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	7

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 44 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	167m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rods Beck

ID	Location	Type of water feature	Ground level	Permanence	Name
C	183m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	184m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rods Beck
C	189m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	195m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rods Beck
D	244m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Rods Beck
D	246m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rods Beck

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	6

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 44 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 44 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River**	**Fenay beck from Source to River Colne**	**GB104027063340**	**Colne and Holme**	**Aire and Calder**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	**1**

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 44 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	818m NW	River	Fenay beck from Source to River Colne	GB104027063340 ↗	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	**1**

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 44 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.**	**GB40402G700400 ↗**	**Poor**	**Poor**	**Good**	**2019**

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m	0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding

8.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

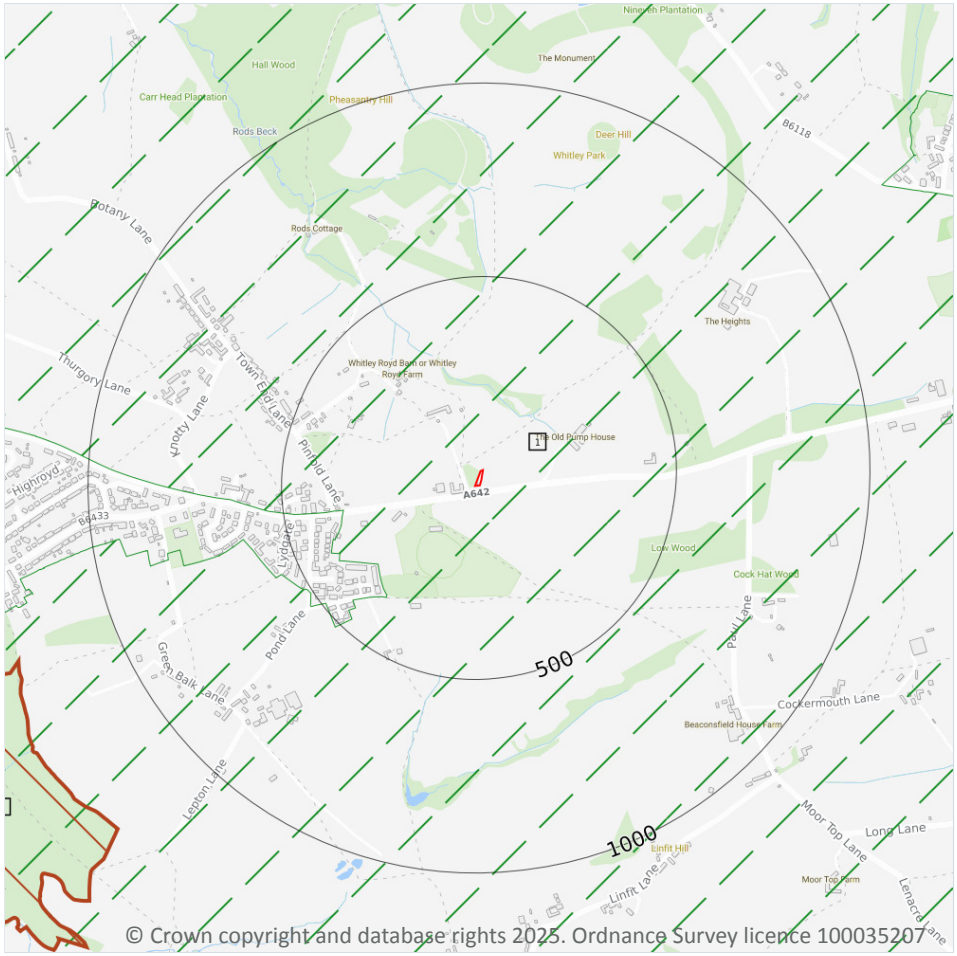
Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 51 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	1

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 52 >**

ID	Location	Name	Woodland Type
2	1264m W	Lepton Great Wood	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	1

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on **page 52 >**

ID	Location	Name	Local Authority name
1	**On site**	**South and West Yorkshire Green Belt**	**Kirklees**

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

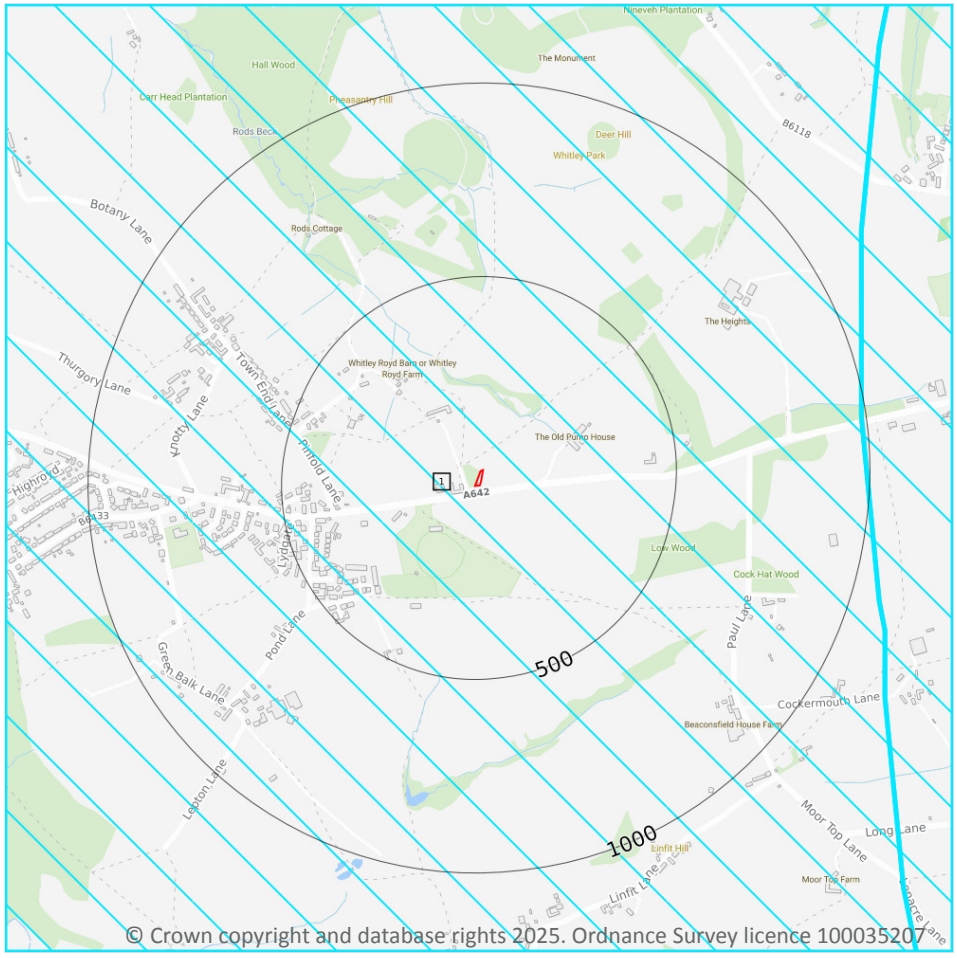
Records within 2000m	2

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
693m E	River Dearne NVZ	Surface Water	278	Existing
1870m NE	River Dearne NVZ	Surface Water	278	Existing

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 57 >**

ID	Location	Type of developments requiring consultation
1	On site	**Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	1

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 59 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	49m E	4.25 Miles Post 150 Yards East Of White Horse Inn	II	1184132	16/05/1984

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline
Search buffers in metres (m)
Grade 1 - excellent quality
Grade 2 - very good quality
Grade 3 - good to moderate quality
Grade 3a - good quality
Grade 3b - moderate quality
Grade 4 - poor quality
Grade 5 - very poor quality
Non-agricultural land
Urban land
Exclusion land
Tree felling licences
Open Access land

12.1 Agricultural Land Classification

Records within 250m	1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 62 >**

ID	Location	Classification	Description
1	On site	Grade 4	**Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.**

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m	0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	2

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
On site	**AG00689031**	**Entry Level plus Higher Level Stewardship**	**01/12/2012**	**30/11/2023**
27m S	AG00689031	Entry Level plus Higher Level Stewardship	01/12/2012	30/11/2023

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks
Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	2

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 64 >**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
2	25m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

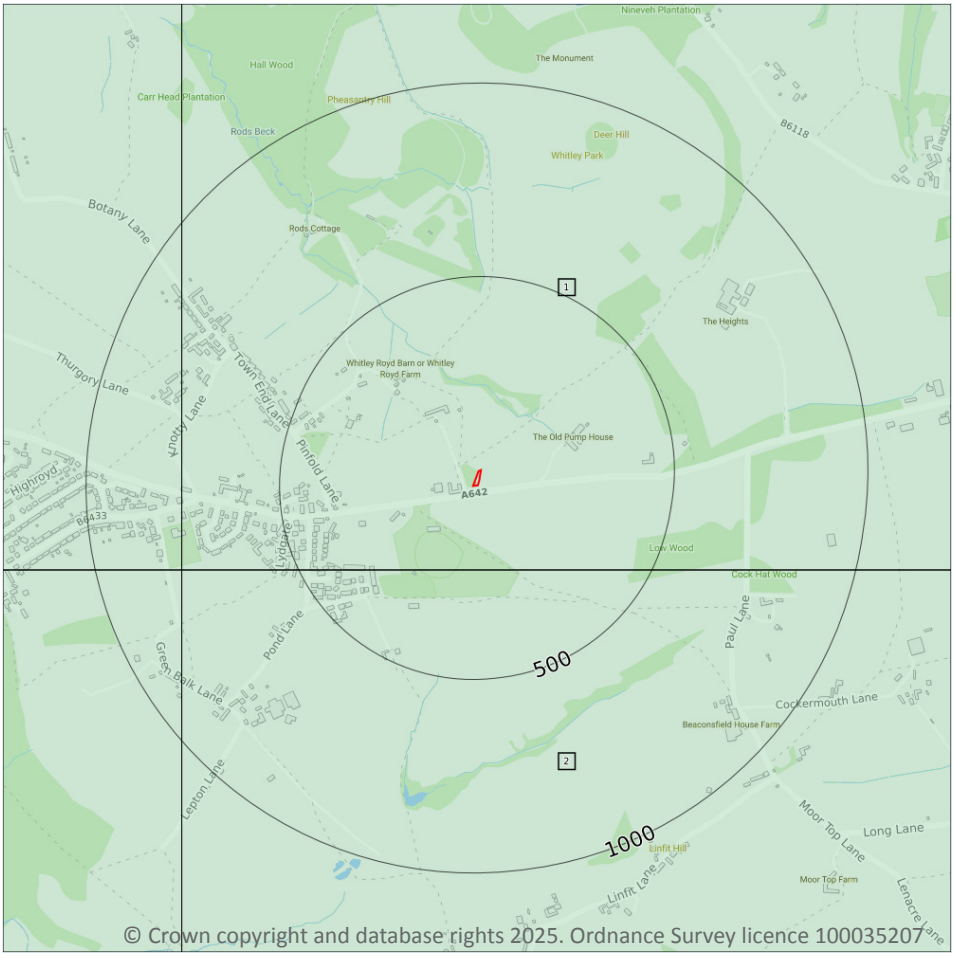
13.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	2

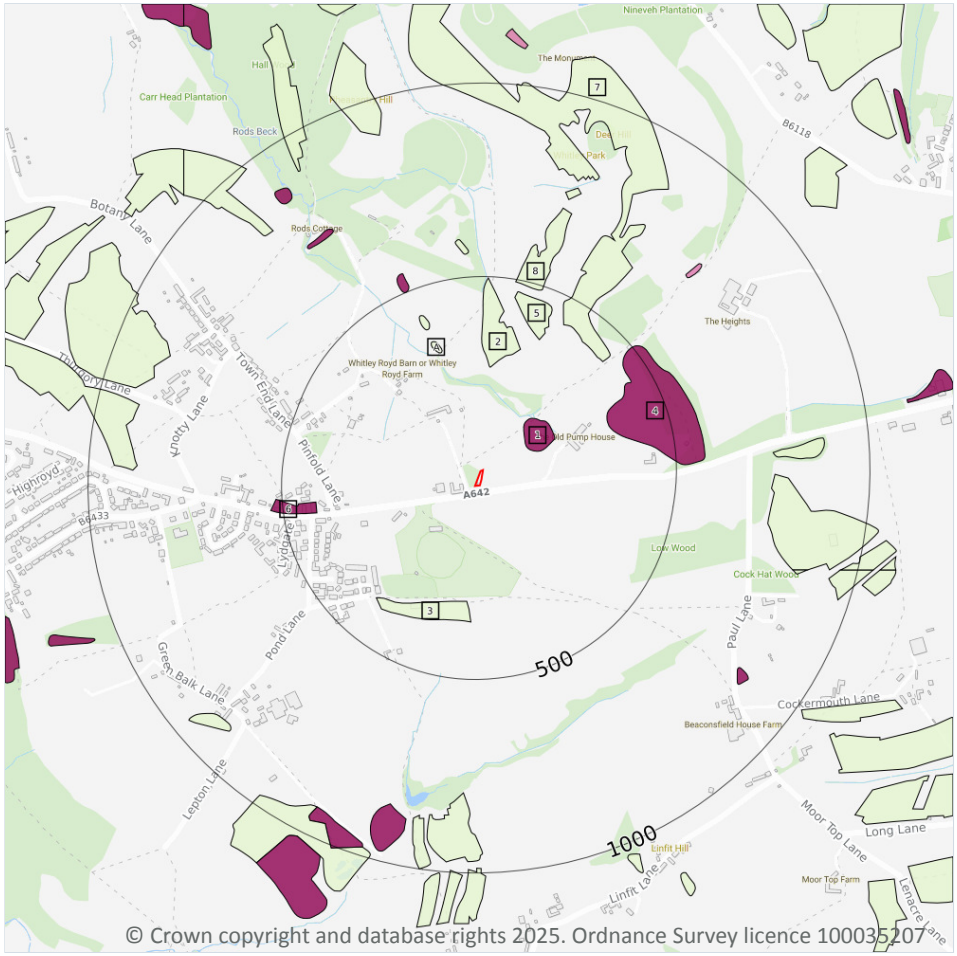
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 66 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE21NW**
2	217m S	Full	Full	Full	Full	SE21SW

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground



Site Outline

Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m	10

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

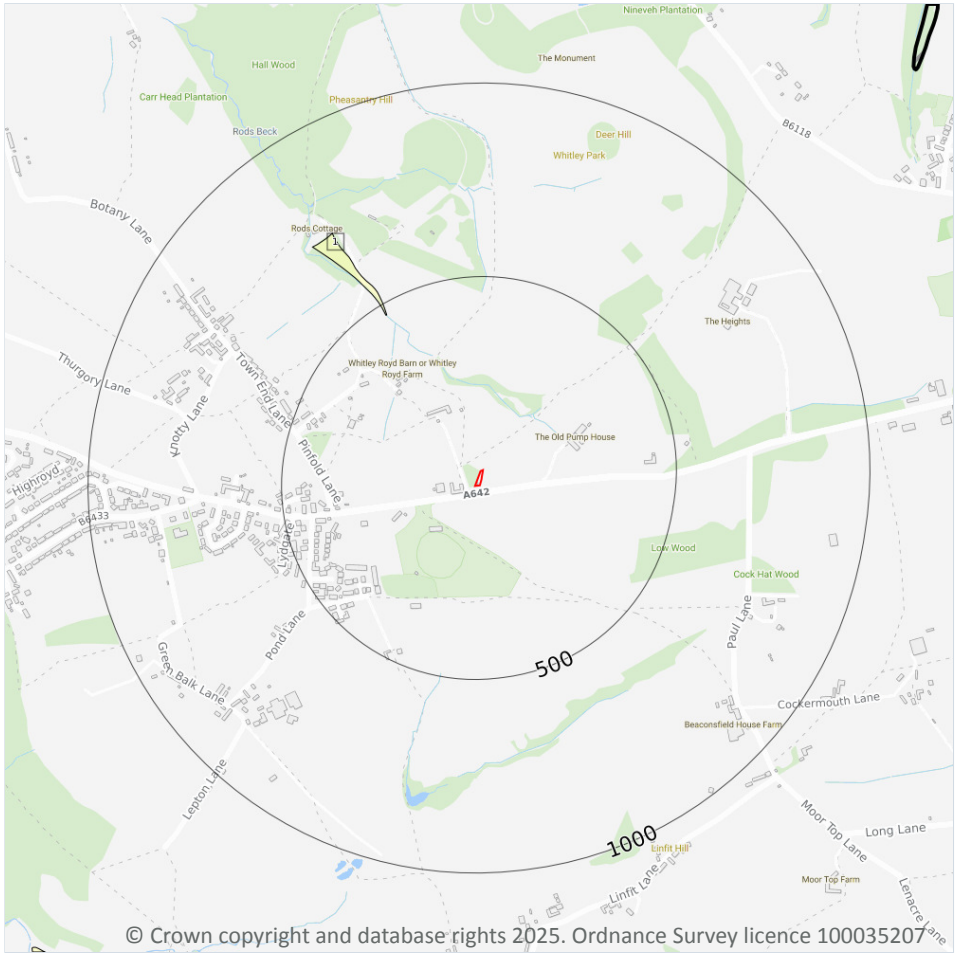
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 67 >**

ID	Location	LEX Code	Description	Rock description
1	128m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	267m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	299m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	322m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
4	345m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	367m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	390m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
6	413m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	415m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	487m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m	1

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 69 >**

ID	Location	LEX Code	Description	Rock description
1	471m NW	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel

This data is sourced from the British Geological Survey.

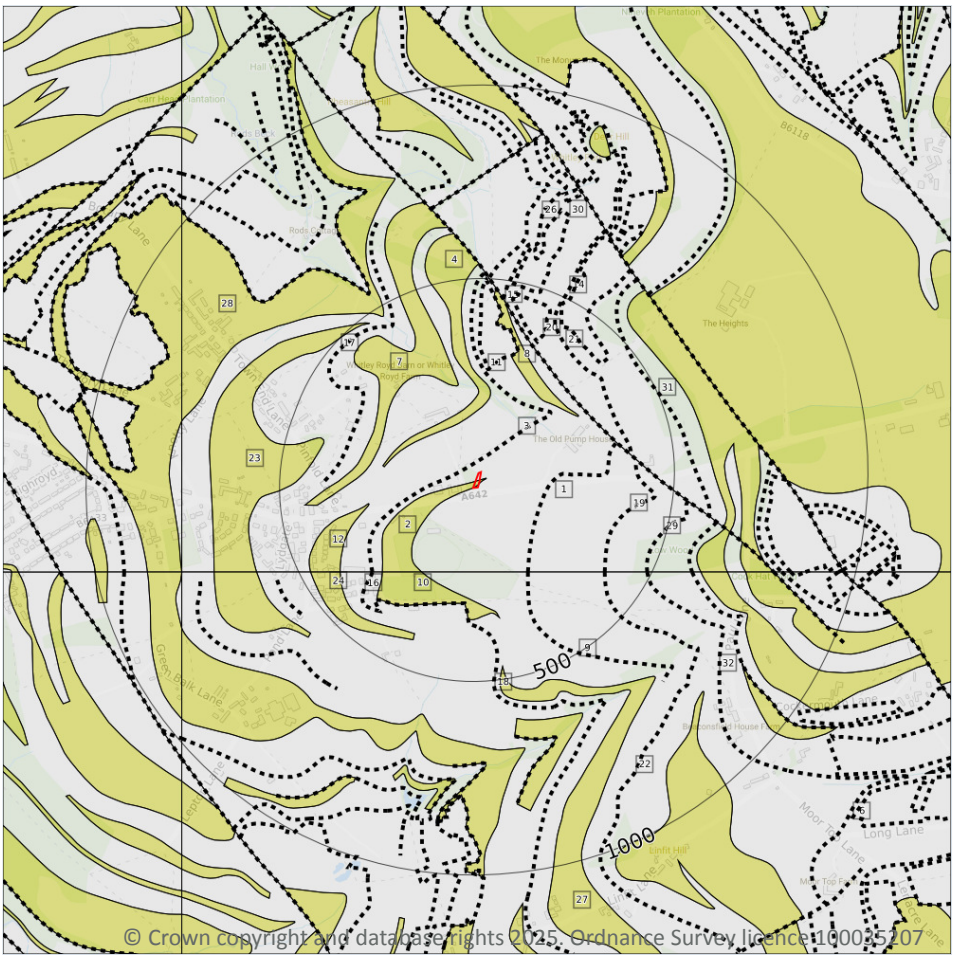
14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m	13

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 71 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**
2	**On site**	**FHR-SDST**	**Falhouse Rock - Sandstone**	**Langsettian Sub-age**
4	138m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
6	217m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
7	231m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
8	245m NE	FHR-SDST	Falhouse Rock - Sandstone	Langsettian Sub-age
10	255m SW	FHR-SDST	Falhouse Rock - Sandstone	Langsettian Sub-age
12	272m W	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
14	306m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
23	403m W	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
24	406m S	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
27	468m S	FHR-SDST	Falhouse Rock - Sandstone	Langsettian Sub-age
28	474m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**19**

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

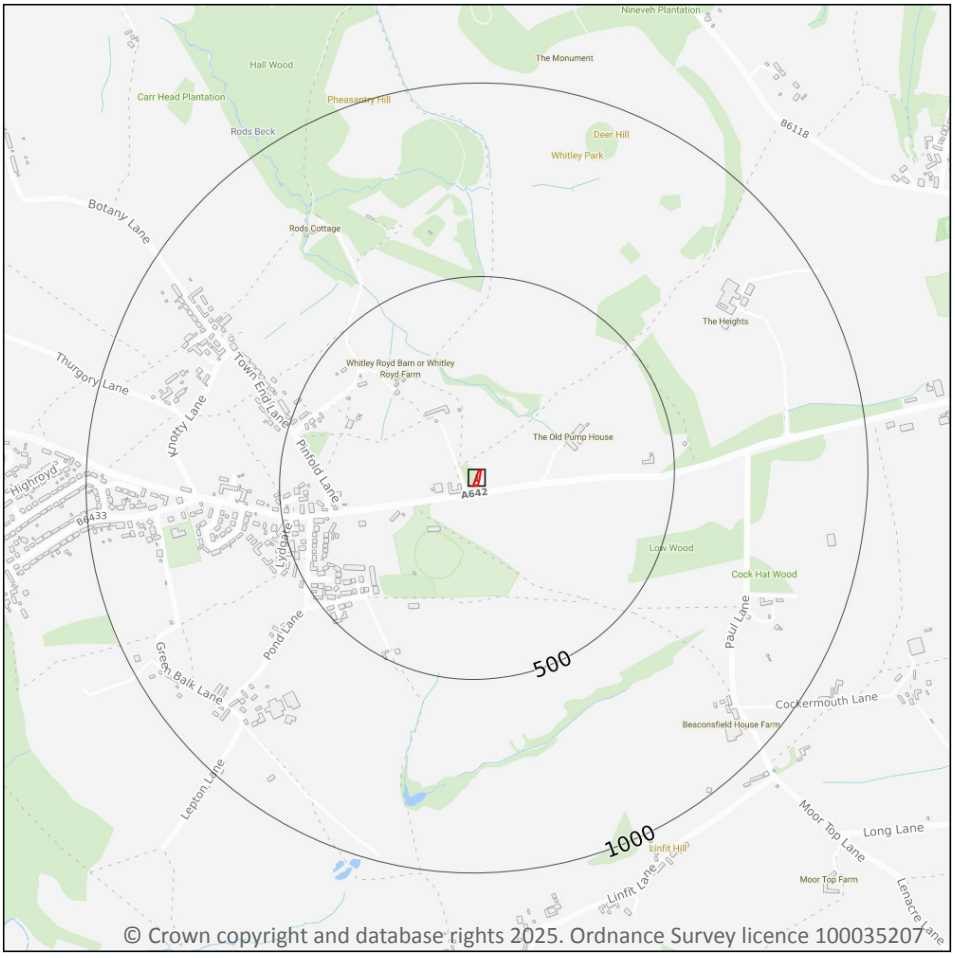
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 71 >**

ID	Location	Category	Description
3	27m NW	ROCK	Coal seam, inferred
5	167m E	ROCK	Coal seam, inferred
9	254m SE	ROCK	Coal seam, inferred
11	267m N	ROCK	Coal seam, observed
13	299m S	ROCK	Coal seam, observed
15	306m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
16	339m SW	ROCK	Coal seam, inferred
17	341m W	ROCK	Coal seam, inferred
18	361m S	ROCK	Coal seam, inferred

ID	Location	Category	Description
19	362m E	ROCK	Coal seam, inferred
20	367m NE	ROCK	Coal seam, observed
21	373m E	ROCK	Coal seam, inferred
22	394m SE	ROCK	Coal seam, inferred
25	415m NE	ROCK	Coal seam, observed
26	451m N	ROCK	Coal seam, inferred
29	474m E	ROCK	Coal seam, inferred
30	487m N	ROCK	Coal seam, observed
31	488m NE	ROCK	Coal seam, inferred
32	489m SE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

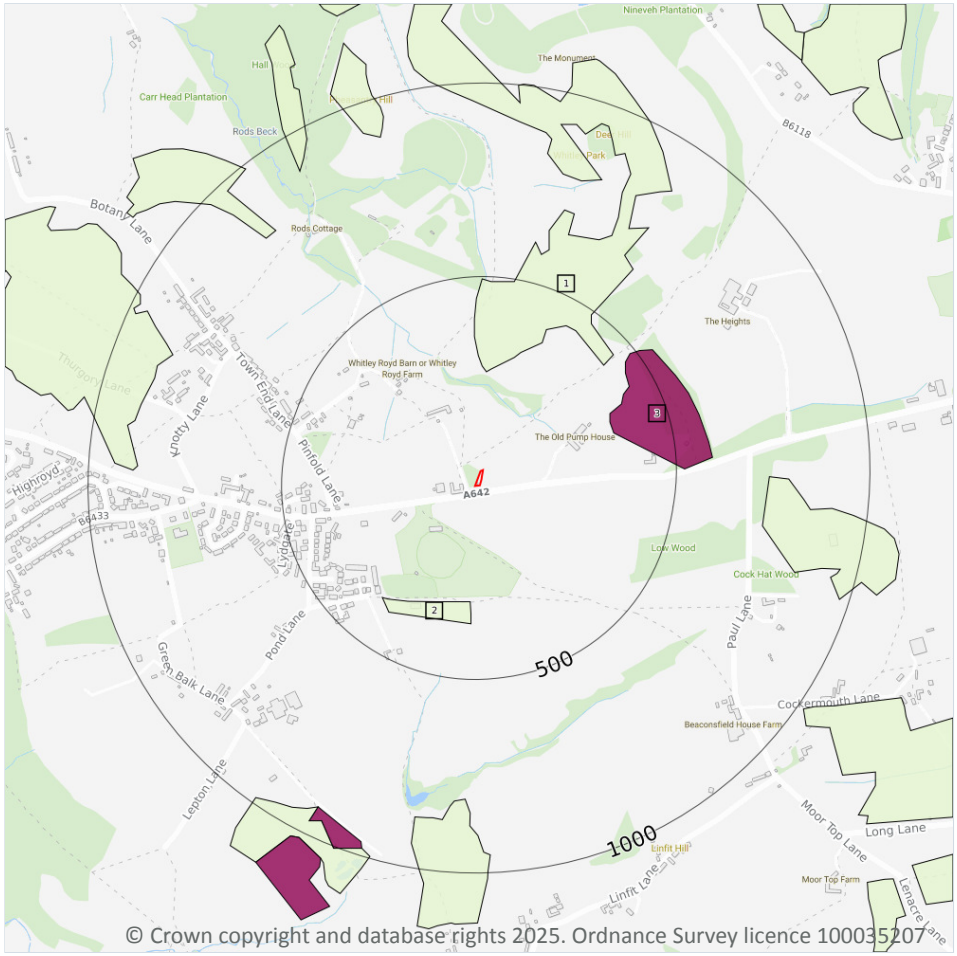
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 74 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW077_huddersfield_v4**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	3

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 75 >**

ID	Location	LEX Code	Description	Rock description
1	254m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	299m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	351m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m	0

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

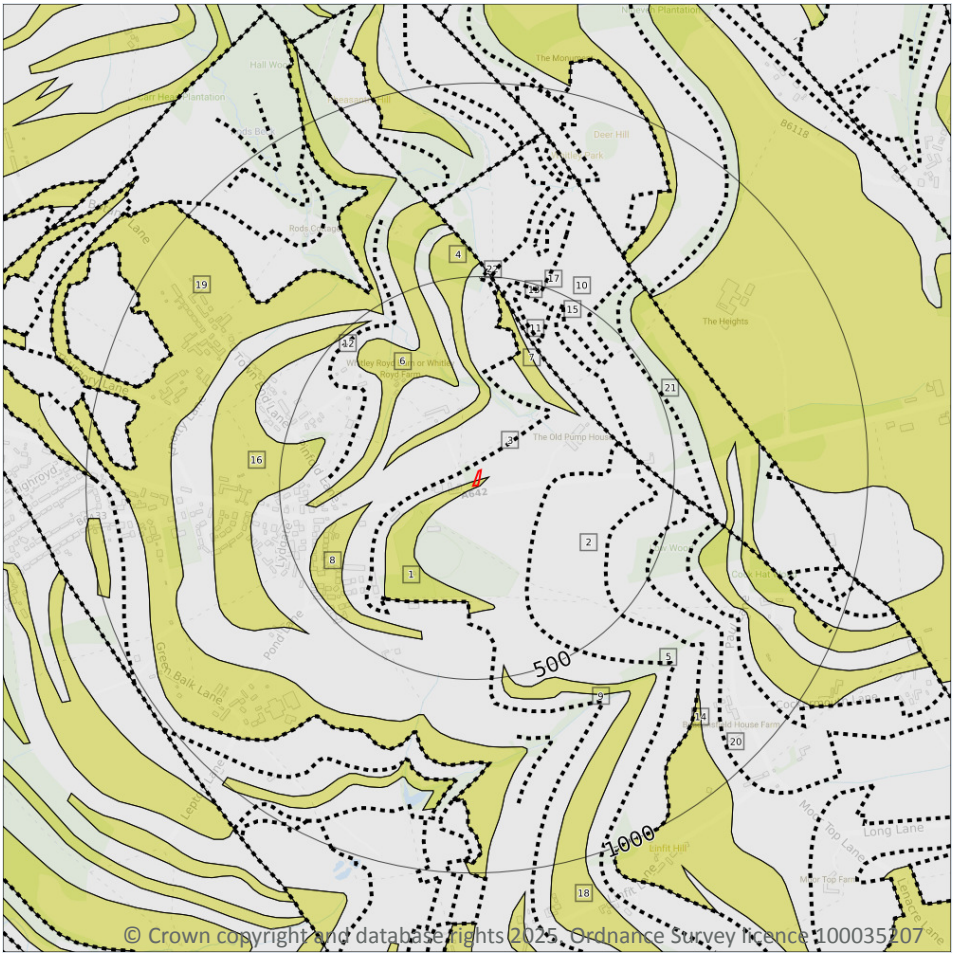
15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m	10

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 78 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**FHR-SDST**	**FALHOUSE ROCK - SANDSTONE**	**WESTPHALIAN**
2	**On site**	**PLCM-MDSS**	**PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE**	**WESTPHALIAN**
4	126m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
6	226m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
7	243m NE	FHR-SDST	FALHOUSE ROCK - SANDSTONE	WESTPHALIAN
8	266m W	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
10	308m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	399m W	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
18	470m S	FHR-SDST	FALHOUSE ROCK - SANDSTONE	WESTPHALIAN
19	473m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **2**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Moderate**	**Low**
On site	**Fracture**	**High**	**Moderate**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m **12**

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 78 >**

ID	Location	Category	Description
3	20m NW	ROCK	Coal seam, inferred

ID	Location	Category	Description
5	172m E	ROCK	Coal seam, inferred
9	299m S	ROCK	Coal seam, inferred
11	308m NE	FAULT	Fault, inferred
12	336m W	ROCK	Coal seam, inferred
13	363m NE	ROCK	Coal seam, inferred
14	365m E	ROCK	Coal seam, inferred
15	378m E	ROCK	Coal seam, inferred
17	456m N	ROCK	Coal seam, inferred
20	480m E	ROCK	Coal seam, inferred
21	489m NE	ROCK	Coal seam, inferred
22	494m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m	1

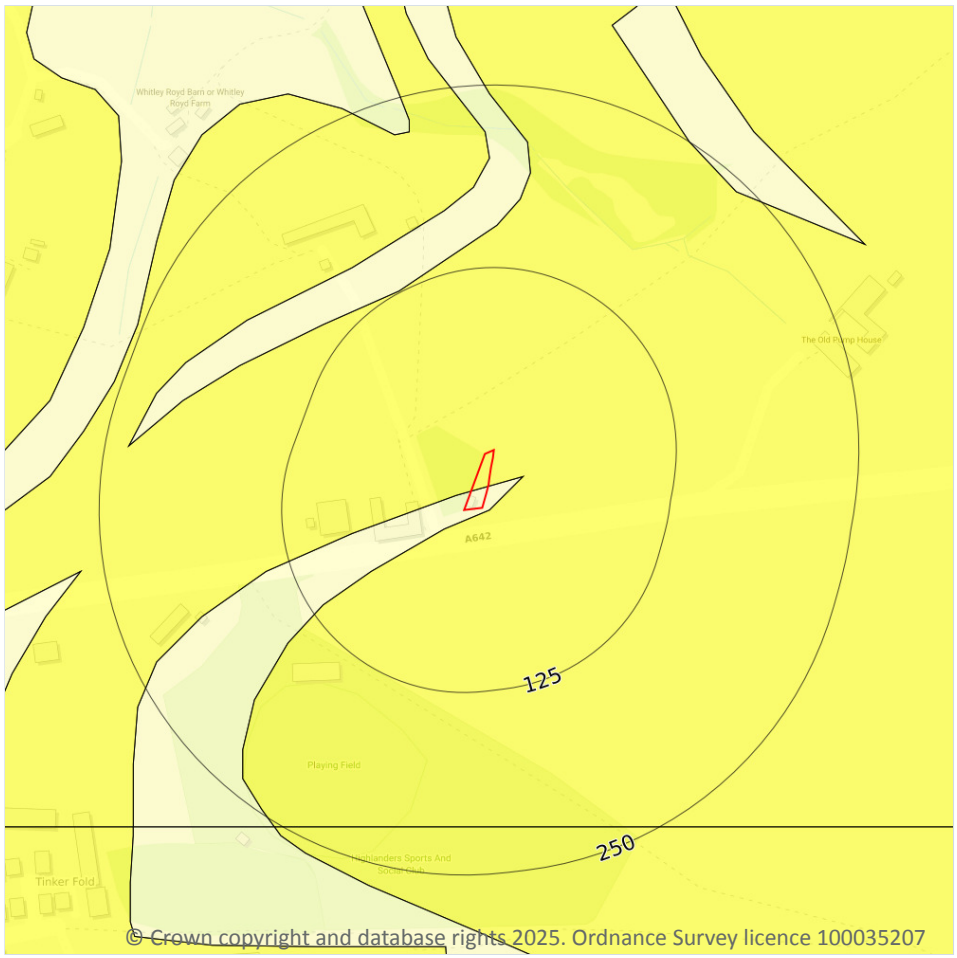
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 81 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	61m NW	420713 415284	LEPTON SQUARE BOREHOLE	-1.0	N	56633 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m	2

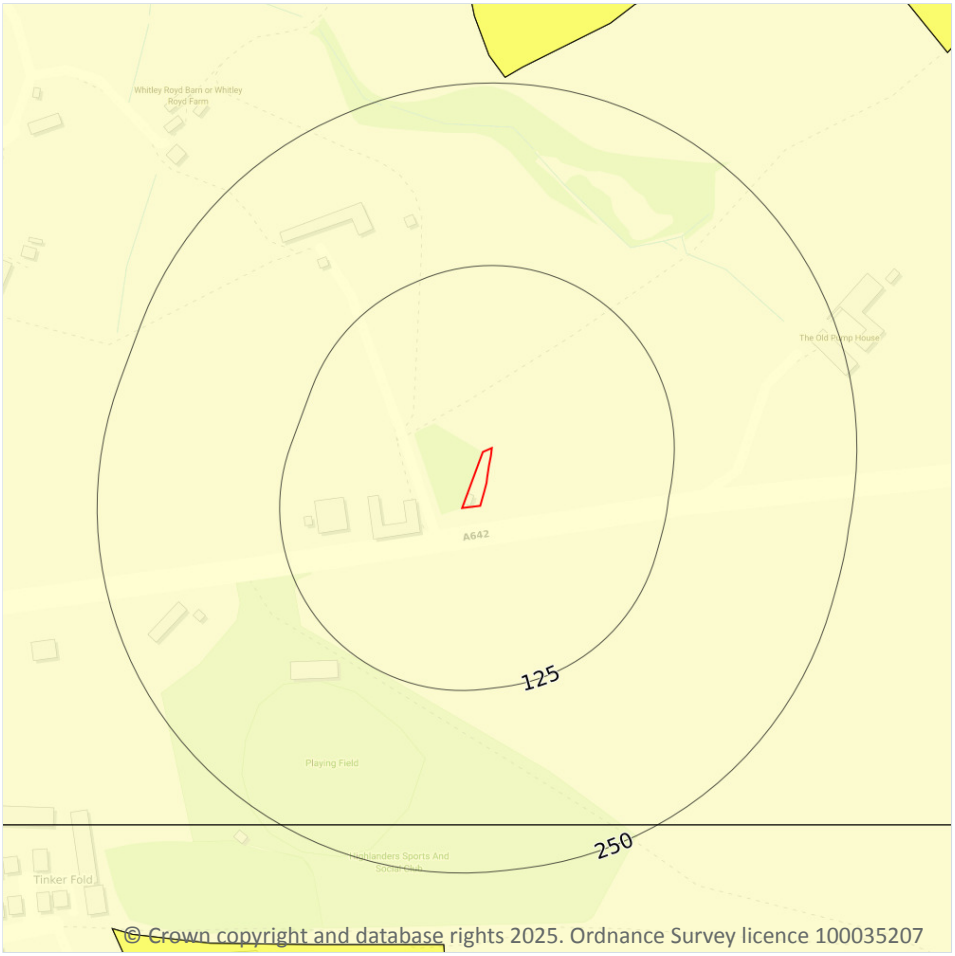
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 82 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Very low**	**Ground conditions predominantly low plasticity.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	1

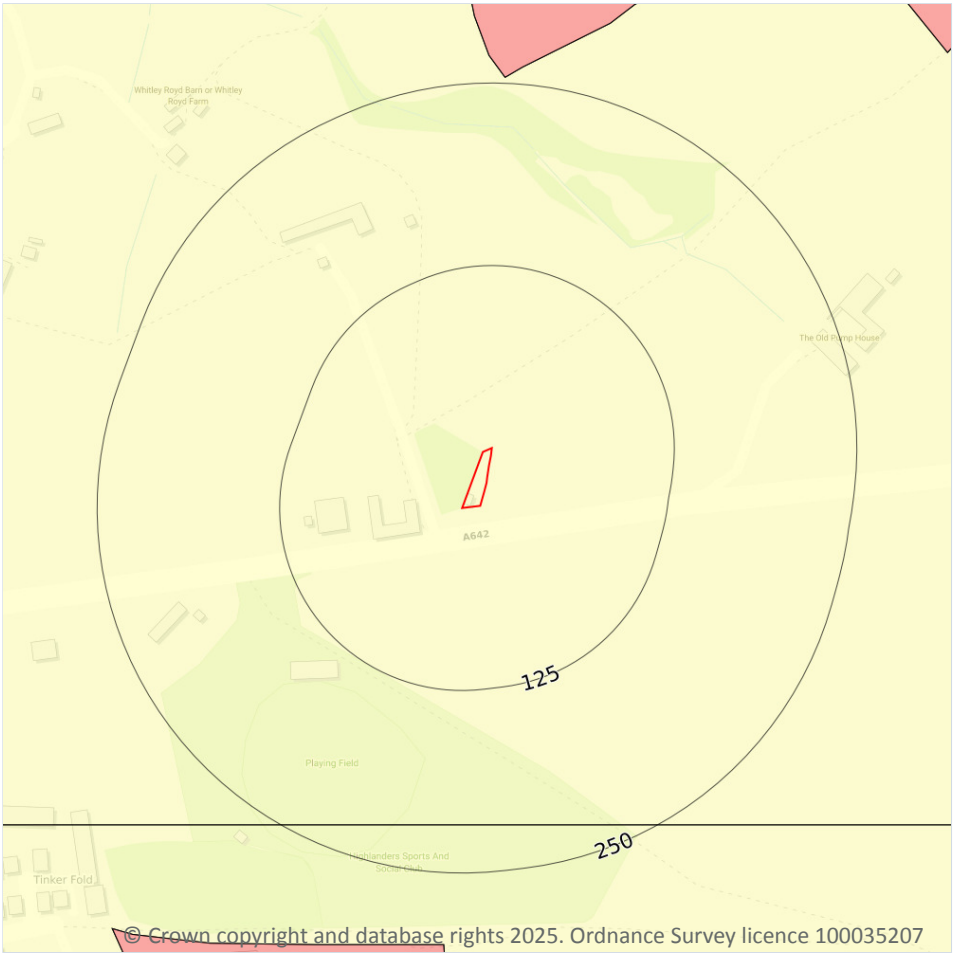
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 83 >**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	1

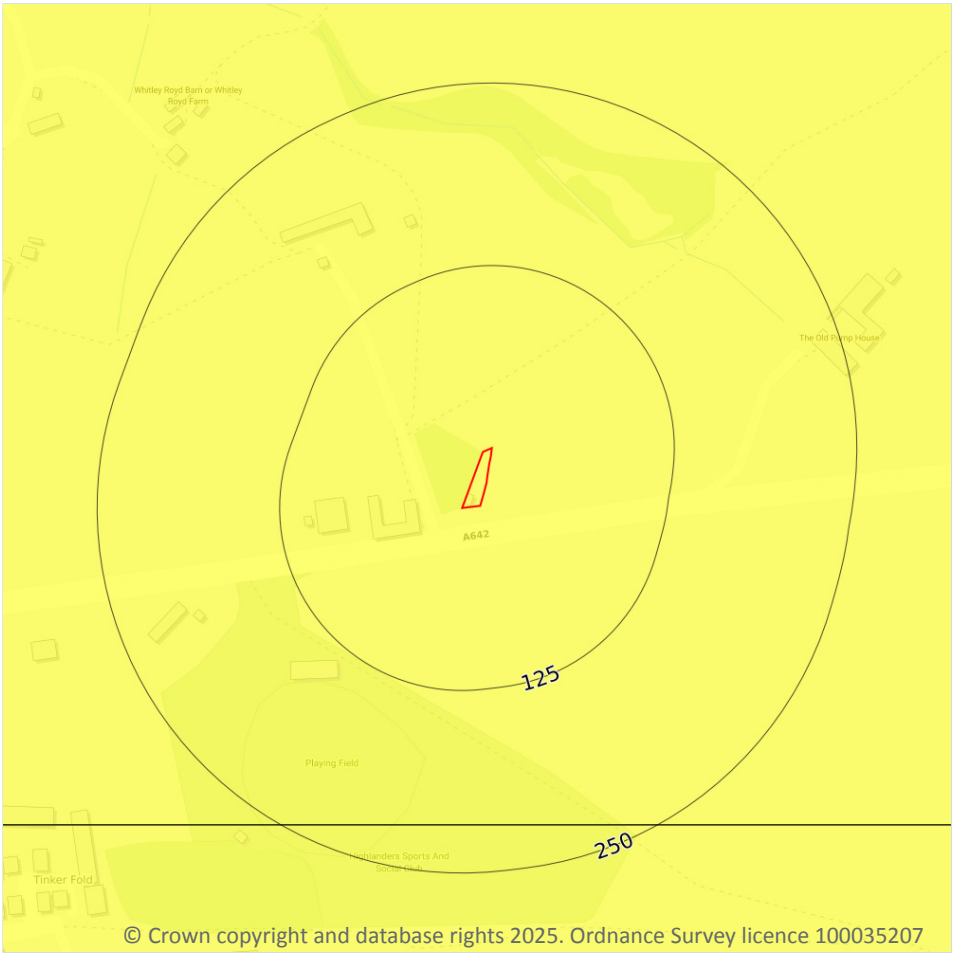
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 84 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

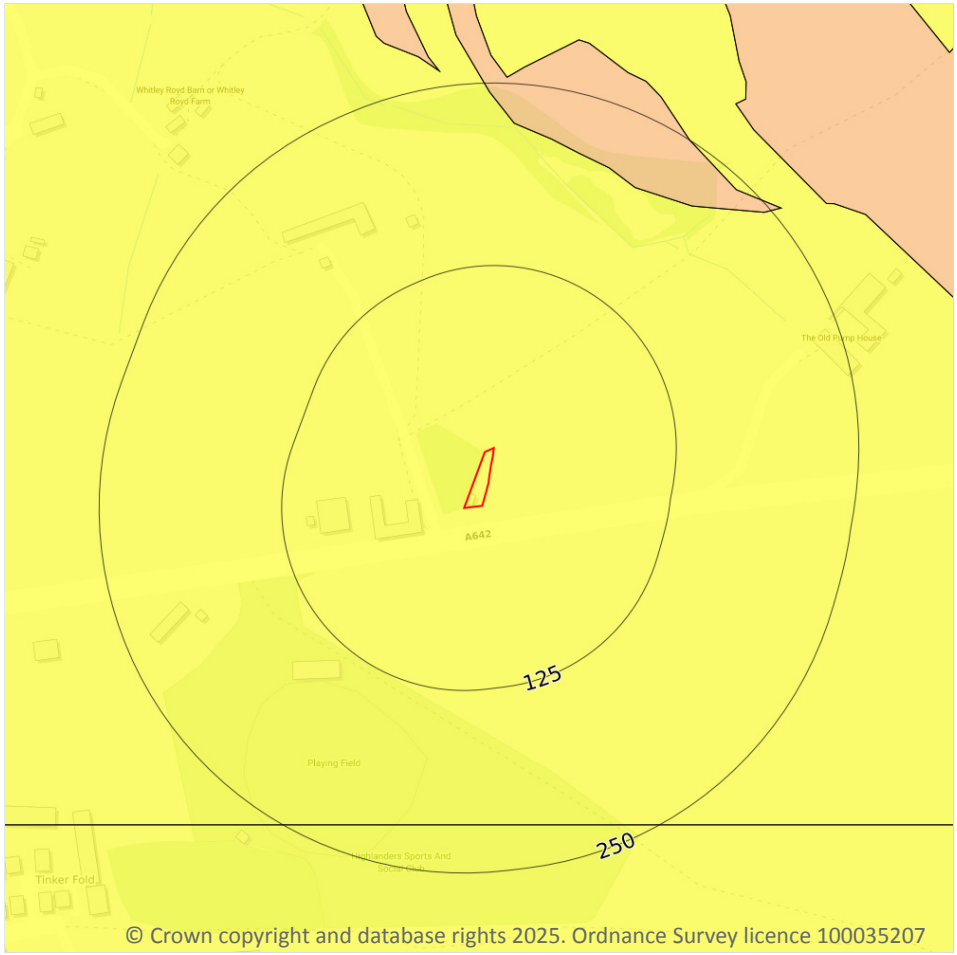
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 85 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	1

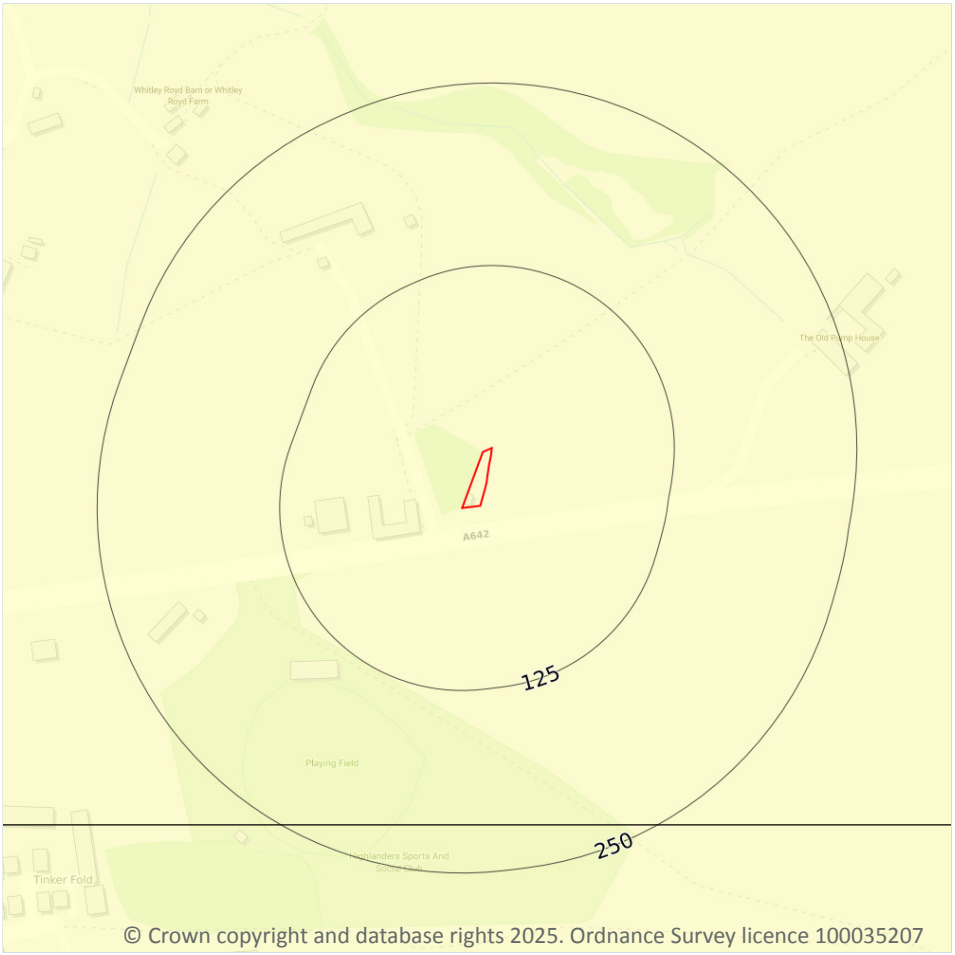
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 86 >**

Location	Hazard rating	Details
On site	**Very low**	**Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

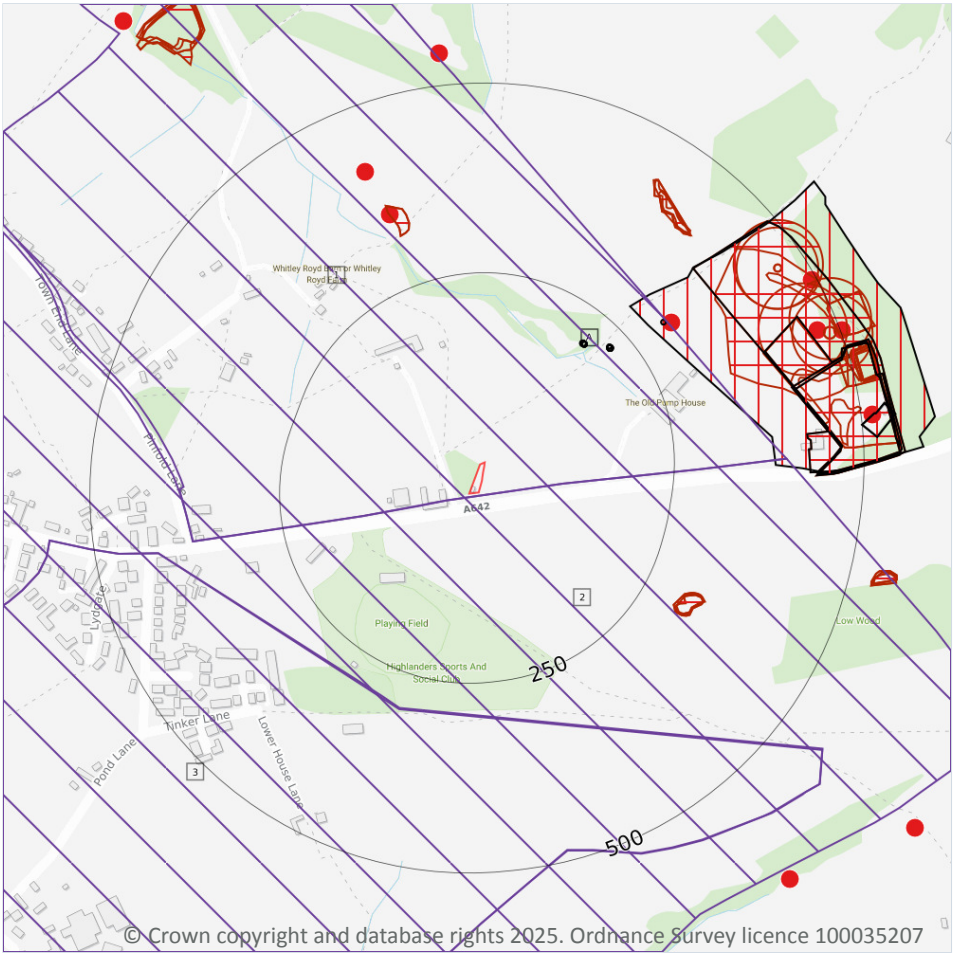
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 87 >**

Location	Hazard rating	Details
On site	**Negligible**	**Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.**

This data is sourced from the British Geological Survey.

18 Mining and ground workings



18.1 BritPits

Records within 500m	5

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on **page 89 >**

ID	Location	Details	Description
C	308m NE	Name: Lepton Edge Colliery Pit Address: Lepton Edge, Lepton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed `Quarry' or `Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
E	350m N	Name: Spittle Royd Address: Spittle Royd, Lepton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
4	414m N	Name: Spittle Royd Address: Spittle Royd, Lepton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

ID	Location	Details	Description
B	471m E	Name: Lepton Edge Level Address: Lepton Edge, Lepton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed `Quarry' or `Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
G	494m NE	Name: Lepton Edge Level Address: Lepton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed `Quarry' or `Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	**0**

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	46

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining and ground workings map on **page 89 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	200m NE	Air Shafts	1938	1:10560
A	200m NE	Air Shafts	1904	1:10560
A	200m NE	Air Shafts	1993	1:10000
A	200m NE	Air Shafts	1982	1:10000
A	200m NE	Air Shafts	1966	1:10560
A	200m NE	Air Shafts	1951	1:10560
A	220m NE	Air Shafts	1993	1:10000
A	220m NE	Air Shafts	1982	1:10000
A	220m NE	Air Shafts	1966	1:10560
A	220m NE	Air Shafts	1951	1:10560
A	221m NE	Air Shafts	1938	1:10560
A	221m NE	Air Shafts	1904	1:10560
B	281m NE	Unspecified Mine	1966	1:10560
C	296m NE	Unspecified Old Shaft	1904	1:10560
B	375m NE	Colliery	1951	1:10560
B	397m E	Colliery	1938	1:10560
B	417m E	Colliery	1892	1:10560
B	419m E	Colliery	1904	1:10560
B	500m E	Unspecified Disused Mine	1993	1:10000
B	500m E	Unspecified Disused Mine	1982	1:10000
-	718m S	Unspecified Level	1904	1:10560
-	734m N	Unspecified Old Shaft	1951	1:10560
-	737m N	Unspecified Shaft	1904	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	737m N	Unspecified Old Shaft	1948	1:10560
-	768m SE	Old Colliery	1955	1:10560
-	787m SE	Old Colliery	1938	1:10560
-	829m SE	Unspecified Old Shaft	1955	1:10560
-	830m SE	Unspecified Old Shaft	1955	1:10560
-	833m SE	Unspecified Old Shaft	1938	1:10560
-	833m SE	Unspecified Old Shaft	1904	1:10560
-	833m SE	Unspecified Disused Shaft	1993	1:10000
-	833m SE	Unspecified Disused Shaft	1979	1:10000
-	833m SE	Unspecified Disused Shaft	1967	1:10560
-	833m SE	Unspecified Old Shaft	1938	1:10560
-	833m SE	Unspecified Old Shaft	1904	1:10560
-	882m SE	Unspecified Shaft	1955	1:10560
-	885m SE	Unspecified Shaft	1938	1:10560
-	909m SW	Air Shaft	1955	1:10560
-	917m SW	Air Shaft	1938	1:10560
-	917m SW	Air Shaft	1904	1:10560
-	917m SW	Air Shaft	1968	1:10560
-	917m SW	Air Shaft	1977	1:10000
-	917m SW	Air Shaft	1990	1:10000
-	933m E	Old Coal Pit	1904	1:10560
-	969m E	Old Coal Pit	1904	1:10560
-	996m W	Unspecified Mine	1968	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	3

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

Features are displayed on the Mining and ground workings map on **page 89 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
1	**On site**	**Bogden Fireclay Mine**	**Fireclay**	**Working is wholly underground**	**Valid**	**Not available**
2	4m S	Bogden Fireclay Mine	Fireclay	Working is wholly underground	Valid	Not available
3	287m SW	Bogden Fireclay Mine	Fireclay	Working is wholly underground	Valid	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes



Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

Mining cavities

Reported recent incidents

Historical incidents

19.1 Natural cavities

Records within 500m	0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	1

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

Features are displayed on the Ground cavities and sinkholes map on **page 98 >**

ID	Location	Mine Address	Mineral
-	977m W	Bogden, West Yorkshire	Fireclay

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

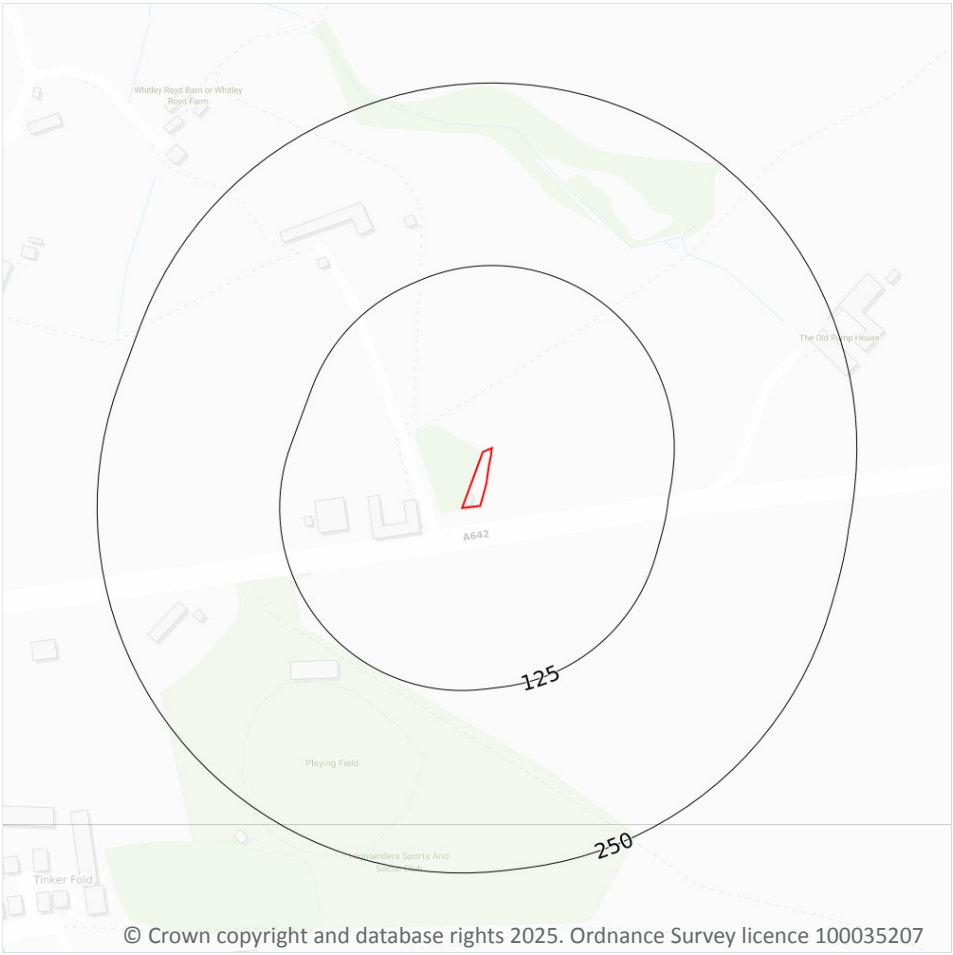
Records within 500m	0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.

20 Radon



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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 100 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Less than 1%**	**None**

This data is sourced from the British Geological Survey and UK Health Security Agency.

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m	0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

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