REAR 34 HIGH STREET, RIDDINGS

PHASE I GEO-ENVIRONMENTAL ASSESSMENT FOR MR CHRIS KNIGHT

Project Ref:
EAL.230.26

Date:
October 2026

Prepared for:
Mr Chris Knight
60 Laverick Road
Jacksdale
Nottingham
NG16 5LQ

Prepared by:		Phil Devitt MRICS *Director*
Date:	October 2026	
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:	Rear 34 High Street, Riddings
CLIENT:	Mr Chris Knight
DATE:	October 2026
REFERENCE	EAL.230.26
DEVELOPMENT PROPOSAL:	Redevelopment with small residential bungalow dwelling with associated private garden.
HUMAN HEALTH:	Low to moderate risk identified – a phase II investigation is recommended.
CONTROLLED WATERS:	Low to moderate risk identified – a phase II investigation is recommended.
GAS RISK:	Low risk identified – a phase II investigation is recommended.
RADON GAS:	Radon protection measures will not be required.
COMMENTS:	Coal Mining Risk Assessment will be 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.

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1.0 INTRODUCTION

1.1 PREAMBLE

This Phase I Geo-Environmental Assessment has been produced for Mr Chris Knight (hereafter referred to as 'the client') to provide a pre-development contamination and geotechnical assessment of the site known as Rear of 34 High Street, Riddings.

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 SOURCES OF INFORMATION NOT AVAILABLE

No environmental permits, operational records, historical site investigation reports or records relating to previous site remediation were made available to Erda Associates Ltd at the time of assessment.

The proposed development and available site history were discussed with the client. The client was not aware of any previous investigations, significant pollution incidents or remediation works undertaken on the site.

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

It is understood that the client proposes to redevelop the site with a small residential bungalow dwelling with associated private garden. A proposed development plan is included in **Appendix A**.

2.0 PHASE I DESK STUDY AND SITE OBSERVATIONS

2.1 GEOGRAPHICAL SETTING

The site is situated within the village of Riddings, approximately 2km south-southwest of Alfreton town centre. The site is centred at National Grid Reference SK 42921 52419 (442921, 352419). Site location and boundary plans are presented in **Appendix A**.

2.2 SITE DESCRIPTION

The site comprises a small rectangular parcel of land spanning approximately 0.02 hectares, situated to the rear of residential properties fronting High Street (No. 34). Access is gained via an existing access track/alleyway off High Street.

The site currently comprises vacant scrub/grassland that slopes gently to the south. Semi-mature/mature trees and hedgerows were noted to eastern, western and southern boundaries. Site boundaries were generally formed by concrete breeze blocks, hedgerows or open.

The immediate surrounding land uses were noted to comprise, residential dwellings to the north and west along with allotment gardens to the east and south.

A summary table of the salient walkover findings is included in the table below;

Observation	Findings
Date Of Walkover	1st October 2026
Weather Conditions	Dry, good visibility.
Areas Inspected	Site wide accessibility including site boundaries.
Site Accessibility	Full external access was available at the time of the inspection. No access restrictions affected the external site walkover. No buildings present on site.
Current Site Condition	Vacant brownfield site comprising grass scrubland.
Evidence of Former Structures/Infrastructure	No evidence of previous site development or above-ground infrastructure identified.
Visual Evidence of Contamination	No significant visual evidence of contamination such as extensive staining, discoloured soils, stressed vegetation or uncontrolled fill materials was observed. Some minor stockpiles of timber/branches, litter and cardboard packing stockpiled in north-eastern corner. Some limited building materials (paving slabs) were also stored on site.
Olfactory Observations	No hydrocarbon, solvent or other unusual odours were detected during the inspection.
Storage of Hazardous Materials	No above-ground tanks, chemical storage, drums, fuel storage or hazardous material stockpiles were observed.
Asbestos Containing Materials	No obvious asbestos-containing materials or asbestos fragments were identified during the walkover.
Waste Materials/Fly Tipping	Some minor stockpiles of timber/branches, litter and cardboard packing stockpiled in north-eastern corner. Some limited building materials (paving slabs) were also stored on site.
Ground Gas Indicators	No visual evidence of ground gas emissions, distressed vegetation or ground instability was observed. Ground gas potential remains based upon historical land use and nearby landfill records rather than visual evidence.
Surface Water Features	No significant surface water features were identified on site.
Photographic Record	Representative site photographs were obtained during the inspection and are presented within **Appendix A**.

Overall Walkover Assessment	No significant visual or olfactory evidence of gross contamination was identified during the site inspection. Any subsequent identified contamination risks are based primarily upon the site's historical use, surrounding potentially contaminative land uses and published environmental records, rather than current site observations.

In summary, no evidence of current chemical storage, above ground tanks, underground tank vents, interceptors, staining, or abandoned plant was observed during the inspection. In addition, no significant visual or olfactory evidence of contamination was noted during the site walkover. A minor waste stockpile of timber, branches, litter and cardboard timber were noted, but are not considered to pose a significant risk of contamination. Selected inspection photographs are included in **Appendix A.**

2.3 HISTORICAL REVIEW: SITE DEVELOPMENT

Ordnance Survey maps have been reviewed for the years 1881 - 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
1880-1881	The site comprises open undeveloped/garden ground associated with properties on High Street.	High Street lined with residential/commercial dwellings north. Smithy recorded 51m North-East.
1898-1900	There has been no significant change to the sites use.	Allotment gardens immediately to the South. Unspecified pit 255m East. Smithy 51m to the North-East is no longer recorded.
1913-1917	There has been no significant change to the sites use.	Empire Theatre 180m West.
1938-1950	There has been no significant change to the sites use.	Small domestic garage are now recorded approximately 5m to the North and North-West. Refuse heap recorded 230m to the east.
1961-1966	There has been no significant change to the sites use.	No significant changes identified.
1972-1988	Three small unidentified buildings are recorded to be present on the site.	The refuse heap 230m to the east is no longer recorded.
1994-2003	There has been no significant change to the sites use.	Surrounding residential land uses remain stable.
2010-2025	The buildings are no longer recorded and the site appears vacant.	No significant changes identified.

Significant Features identified on OS Maps:
On-site hazard: Potential localized made ground associated with historical outbuildings – potential low risk of contamination (e.g. heavy metals, PAHs, TPH and asbestos). Off-site hazard: Adjacent allotments, nearby domestic garages, and refuse heaps – potential low to moderate risk of contamination (e.g. heavy metals, PAHs, TPH, asbestos and ground gas).

2.4 ANTICIPATED GEOLOGY

The BGS geological map for this area illustrates;

- Made Ground. is not explicitly mapped on site by BGS, but localised Made Ground is may be anticipated due to the historical small unidentified buildings on site. Infilled ground is recorded 155m to the south and Made Ground 201m SE (former refuse heap).

- Superficial deposits are not recorded to be present beneath the site.
- Solid Strata deposits of the Pennine Lower Coal Measures Formation comprising interbedded Mudstone, Siltstone, and Sandstone (Westphalian).
- An inferred fault is recorded 4.00m to the west of the site.

Significant Features identified from geological data:
Coal Measures strata – indicative of potential for historical coal mining legacy and associated mine gas. Made ground (anticipated on site and in surrounding area) – potential source of contamination and ground gas. Inferred fault – potential risk of future instability.

2.5 HYDROGEOLOGY & HYDROLOGY

2.5.1 Hydrogeology

The Pennine Lower Coal Measures are classified by the Environment Agency as a Secondary A aquifer, classified 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. These are generally aquifers formerly classified as minor aquifers.

There are no active groundwater abstraction sites present within 2,000m of the site. The site is not located within a groundwater Source Protection Zone (SPZ).

Significant Features identified from hydrogeological data:
Secondary A Aquifer (Pennine Lower Coal Measures) – potential receptor.

2.5.2 Hydrology

There are no significant surface water features located on site or within close proximity.

There are no surface water abstraction sites recorded 2,000m of the site. The site is not recorded to be within a Flood Zone 2/3 area.

Significant Features identified from hydrological data:
No significant risk identified.

2.6 MINING

2.6.1 Coal

The site is within a Mining Remediation Authority designated ‘Development High-Risk Area’. A separate Coal Mining Risk Assessment for the subject site is being undertaken by Erda Associates Ltd. at the time of writing and will be reported separately.

2.6.2 Non-Coal Extraction

The site is recorded to be within an area where iron ore extraction may have occurred in the past or current mines may be working at a significant depth to modern engineering standards. However, the report confirms that the potential for difficult ground conditions are unlikely and at a level where they need not be considered.

No other potential non-coal mineral extraction on/beneath the site has been identified.

Significant Features identified from mining data:
Development High Risk Area – separate Coal Mining Risk Assessment is being compiled.

2.7 POTENTIALLY CONTAMINATIVE LAND USES

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

- There are a number of historical potentially contaminative industrial land uses within 250m of the site, the most pertinent of these include; a smithy, unspecified heap, refuse heaps, collieries and unspecified ground workings.
- No active or historical landfill sites are recorded within 250m of the site. However, historic refuse heaps were recorded approximately 230m to the east during the historical mapping review.
- There are no significant current potentially contaminative industrial land uses recorded within 250m of the site.
- There are no historical, current or recent petrol station recorded within 250m of the site.
- There are no historical tanks recorded within 250m of the site.
- There are no significant waste exemption activities recorded either on site or in close proximity.
- There are no licensed discharges to controlled waters located within 250m of the site.
- There are no licensed pollutant releases recorded within 250m of the site.
- There are no hazardous substance or IPC consents located within 250m of the site.
- There are no recorded pollution incidents recorded within 250m of the site.

Significant Features identified from Environmental Data:
Historic potentially contaminative land uses – low to moderate risk of contamination and ground gas.

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% and therefore Radon Protection Measures are not required.

Radon Gas Hazard:
Radon Protection Measures not required

3.0 PHASE I CONCEPTUAL MODEL

3.1 SOURCE-PATHWAY-RECEPTOR

The conceptual model for the site considers the development proposal for a small residential bungalow dwelling with associated private garden along with the preceding information.

The site's former use with unidentified buildings is considered with respect to the potential sources of contamination. The surrounding recorded historic potentially contaminative land uses are also considered. Also, the presence of a recorded historical refuse heap, infilled ground and anticipated made ground may pose a risk of ground gas generation.

Possible contaminants of concern include Heavy Metals, PAHs, TPH CWG, asbestos fibres and ground/mine gas.

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, ingestion of vegetables that have absorbed contamination and soil attached to them, and inhalation of potential ground gas and fibres.

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

As such it is considered that further assessment will be required to determine the risk to construction personnel and the future end user.

For the controlled waters environment, the primary receptor is the Secondary A Aquifer (Pennine Lower Coal Measures) immediately beneath the site. Whilst the upper Coal Measures may comprise weathered cohesive strata of relatively low permeability, this cannot be confirmed without intrusive investigation. Accordingly a plausible pollutant linkage to the Secondary A Aquifer is assumed at this stage.

Possible contaminants of concern include Heavy Metals, PAHs and TPH CWG.

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

As such it is considered that further assessment will be required to determine the risk to controlled waters.

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 and surrounding historical uses.	Indoor and outdoor inhalation of soil dust, the ingestion of, and dermal contact with, contaminated soil and soil dust. Ingestion of vegetables that have absorbed the contamination and soil attached to these. Inhalation of asbestos fibres.	End users (residents).	Low to moderate risk. Further assessment in the form of a Phase II Geo-Environmental Assessment should be undertaken.
		Construction and Maintenance Workers.	
Historic refuse heap, infilled land and potential made ground on site and in surrounding area. Potential shallow underground coal mining – potential source of mine gas.	Inhalation of potential ground gas (carbon dioxide, methane, carbon monoxide and hydrogen sulphide).	End users (residents).	Low risk. Further assessment incorporating a ground gas monitoring programme should be undertaken.
Potentially contaminated made ground or natural strata from historical site usage and surrounding historical uses.	Water pipes.	End users (residents).	Low to moderate risk, Further assessment in the form of a Phase II Geo-Environmental Assessment should be undertaken.

CONTROLLED WATERS			
Potentially contaminated made ground or natural strata from historical site usage and surrounding historical uses.	Leaching of contaminants and vertical migration to the groundwater.	Secondary A Aquifer – Pennine Lower Coal Measures,	Low risk. Further assessment in the form of a Phase II Geo-Environmental Assessment should be undertaken.
	Leaching of contaminants and lateral migration to surface waters.	No significant receptors identified.	Very low risk. Further assessment is not considered to be required.

4.0 RECOMMENDATIONS

There is a low to moderate risk of significant contamination being present on site. As such it is recommended that further investigation and assessment of the site is undertaken to confirm this. The intrusive investigation should target areas associated with anticipated made ground, former buildings and any identified service corridors. Further assessment should include;

- An intrusive investigation where a suitable spread of exploratory holes are advanced targeted to areas of concern as mentioned above.
- Soil samples should be analysed for the contaminants of concern identified above.
- Ground gas monitoring wells and a ground gas monitoring programme should be undertaken
- A geotechnical assessment should be undertaken to assist with foundation design.
- A Coal Mining Risk Assessment and, if necessary, a coal mining legacy investigation will be required

Depending upon the findings of the recommended investigation, further woks such as remediation may be required in order to make the site safe and suitable for the proposed end use.

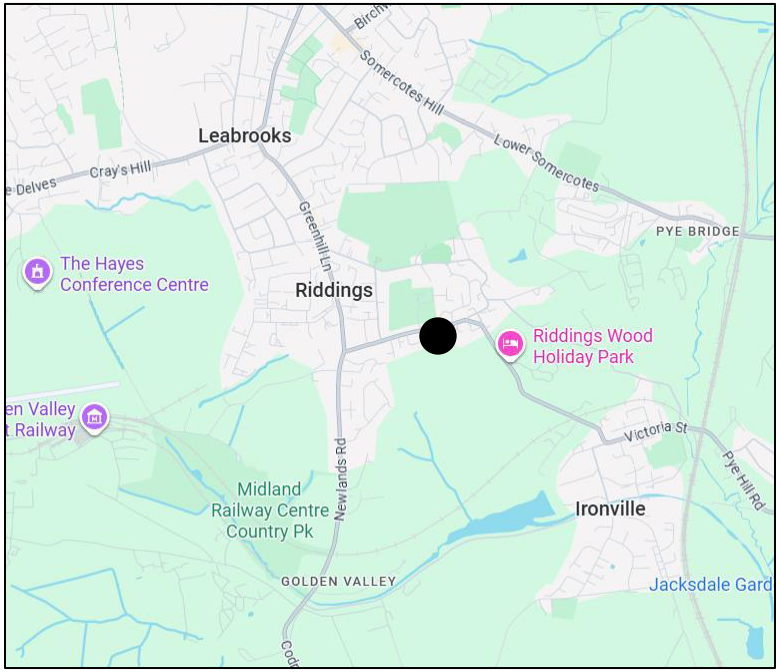
5.0 CONCLUSION

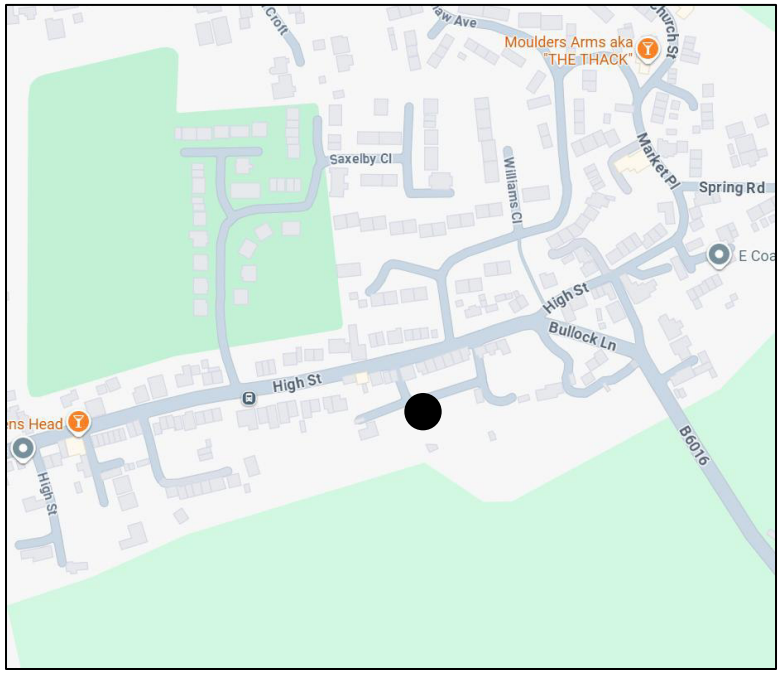
This assessment has been undertaken in accordance with the principles of the Environment Agency Land Contamination Risk Management (LCRM) guidance and is considered sufficient to inform the need for intrusive investigation at planning stage.

This Phase I Site Appraisal has shown the site can be made suitable for the proposed redevelopment of the site with a small residential dwelling assuming the above recommendations are undertaken.

The above recommendations should not supersede the granting of permission in principle or similar.

Appendix A





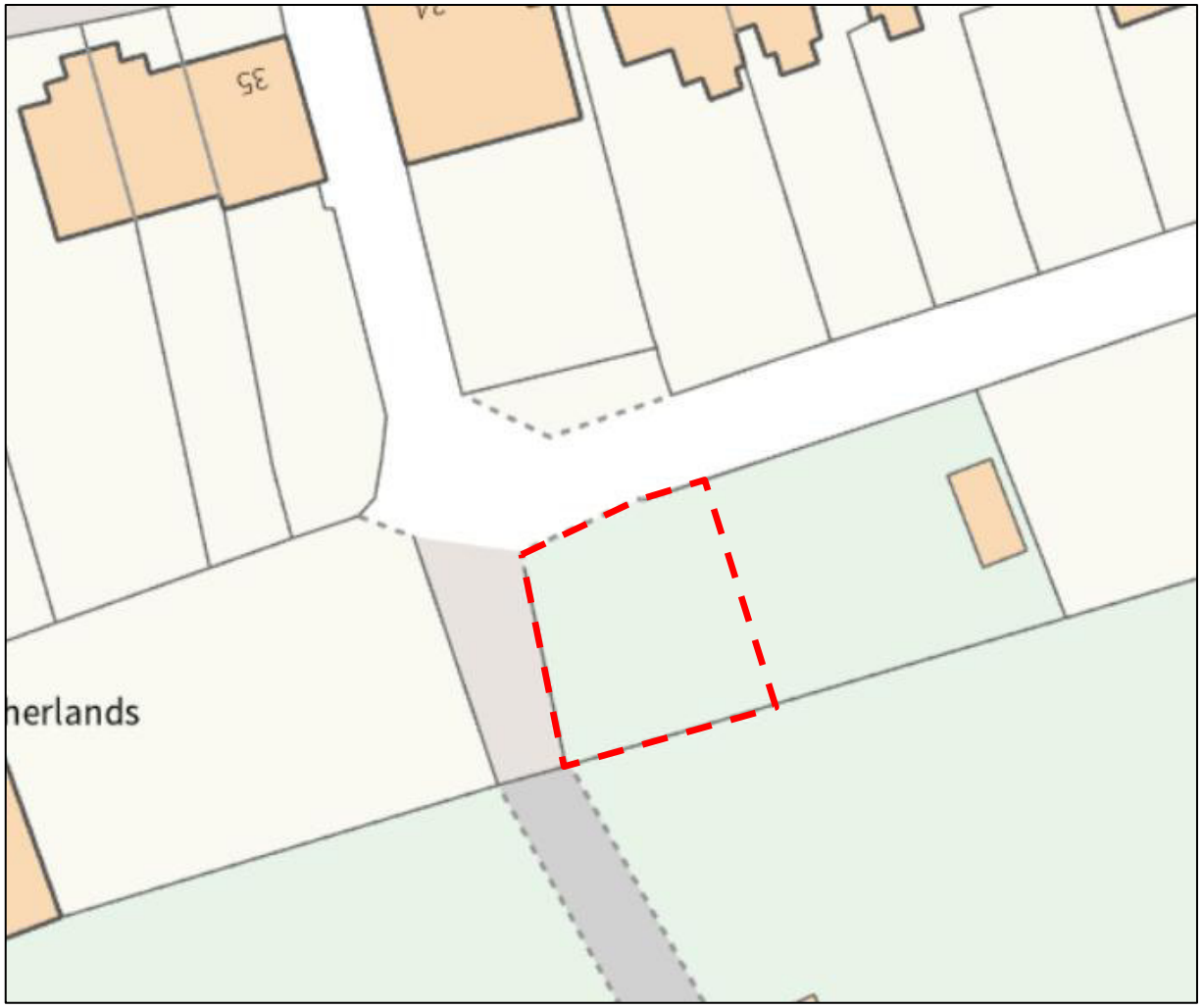
KEY:

● Approximate Site Location

DO NOT SCALE

Erda Associates ltd

TITLE: Site Location Plan		
PROJECT: Rear 34 High Street, Riddings		
PROJECT No: EAL.230.26	DATE: 10/2026	
SCALE : NTS	DRAWN : PD	DWG No: Figure 1



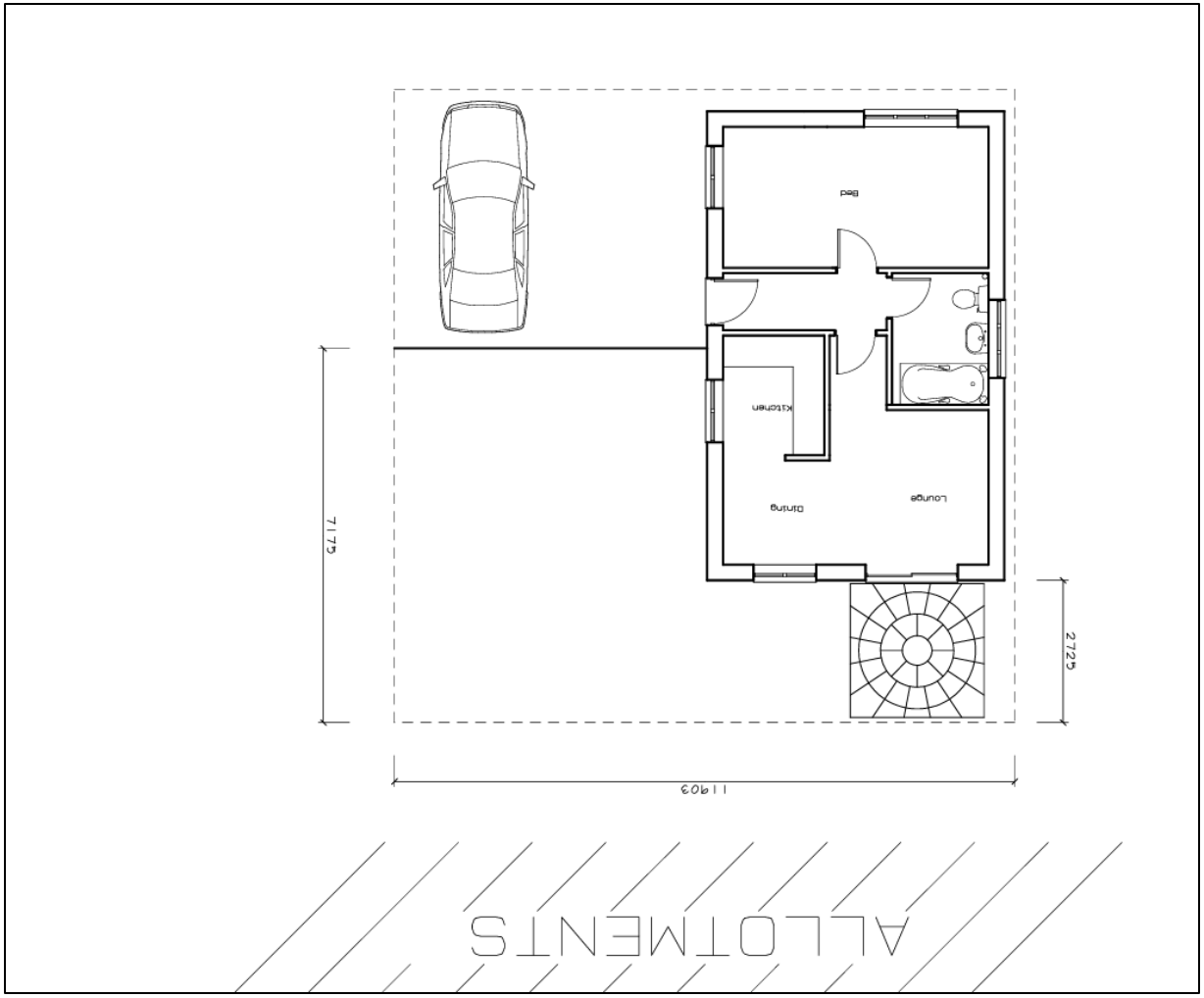
KEY:

Site Boundary

DO NOT SCALE

Verda Associates ltd

TITLE: Site Layout		
PROJECT: Rear 34 High Street, Riddings		
PROJECT No: EAL.230.26	DATE: 10/2026	
SCALE : NTS	DRAWN : PD	DWG No: Figure 2



KEY:

DO NOT SCALE

Verda Associates ltd

TITLE:
Development Proposal

PROJECT:
Rear 34 High Street, Riddings

PROJECT No:	DATE:
EAL.230.26	10/2026

SCALE :	DRAWN :	DWG No:
NTS	PD	Figure 3





KEY:

DO NOT SCALE

Verda Associates ltd

TITLE:

Site Photographs

PROJECT:

Rear 34 High Street, Riddings

PROJECT No:	DATE:
EAL.230.26	10/2026

SCALE :	DRAWN :	DWG No:
NTS	PD	Figure 4A





KEY:

DO NOT SCALE

Verda Associates ltd

TITLE:

Site Photographs

PROJECT:

Rear 34 High Street, Riddings

PROJECT No:	DATE:
EAL.230.26	10/2026

SCALE :	DRAWN :	DWG No:
NTS	PD	Figure 4B

Appendix B



Map legend available at:
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Map Insight

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Geospatial advantage from Idox

Site details:	Rear of 34 High Street, Riddings, Alfreton, DE55 4BN
Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	County Series
Map date:	1880-1881
Scale:	1:2,500
Printed at:	1:2,500

N W E S

Date: 1880
Surveyed: 1880
Revised: 1880

Date: 1881
Surveyed: 1881
Revised: 1881

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	County Series
Map date:	1900
Scale:	1:2,500
Printed at:	1:2,500

N W E S

Date: 1900
Surveyed: 1900
Revised: 1900

Date: 1900
Surveyed: 1900
Revised: 1900

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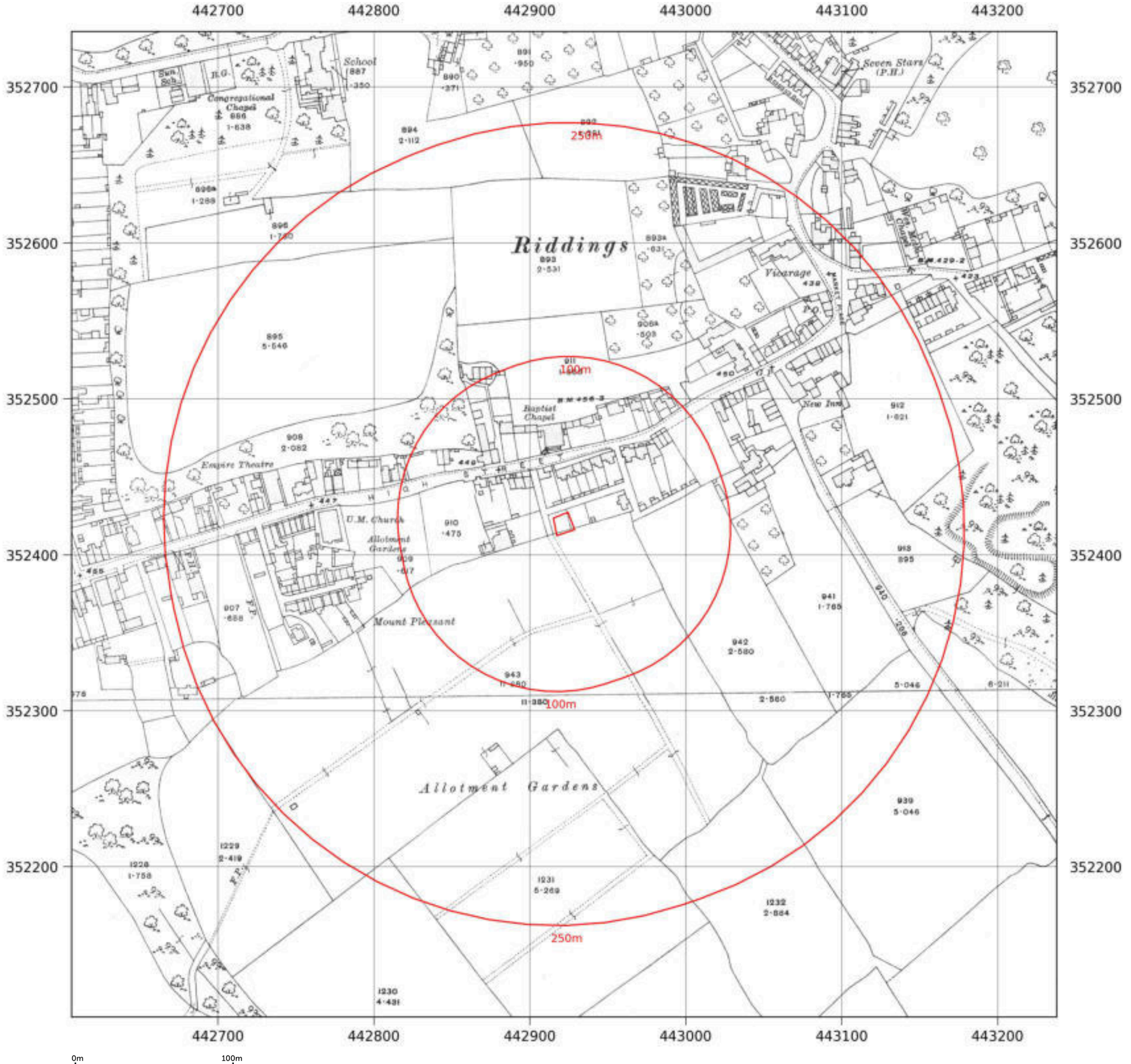

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Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	County Series
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Printed at:	1:2,500

N W E S

Date: 1917
Surveyed: 1917
Revised: 1917

Date: 1916
Surveyed: 1916
Revised: 1916

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
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Production date:	1 October 2026

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Printed at:	1:2,500

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Date: 1938
Surveyed: 1938
Revised: 1938

Date: 1938
Surveyed: 1938
Revised: 1938

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Report ref:	EMS-1132355_1417931
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Production date:	1 October 2026

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Date: 1950 Surveyed: 1950 Revised: 1950 Levelled: 1947	Date: 1951 Surveyed: 1951 Revised: 1951 Levelled: 1949
Date: 1950 Surveyed: 1950 Revised: 1950 Levelled: 1947	Date: 1950 Surveyed: 1950 Revised: 1950 Levelled: 1949

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442700 442800 442900 443000 443100

352600 352500 352400 352300 352200

RIDDINGS

100m

100m

Allotment Gardens

0m 100m

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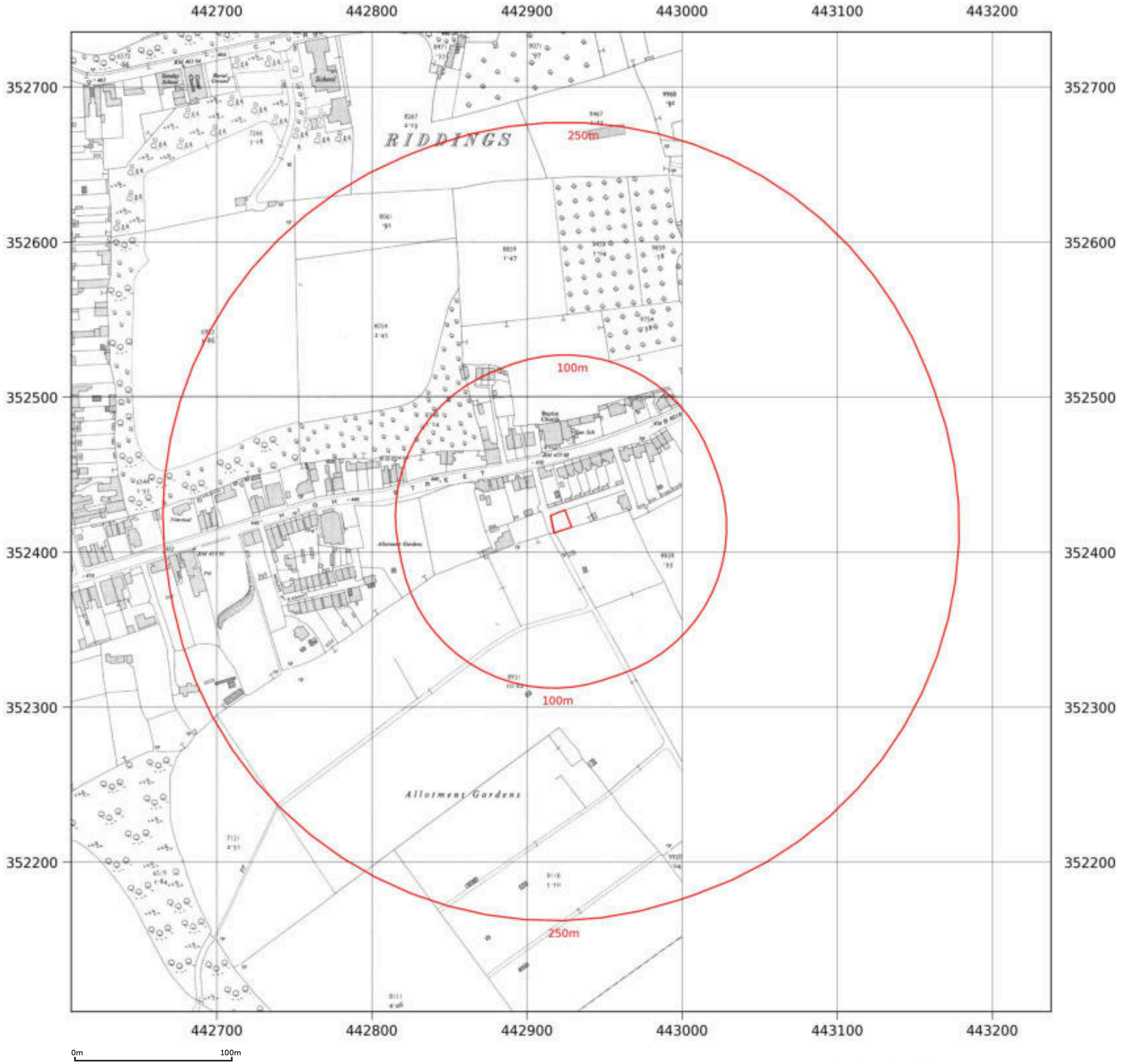

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Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
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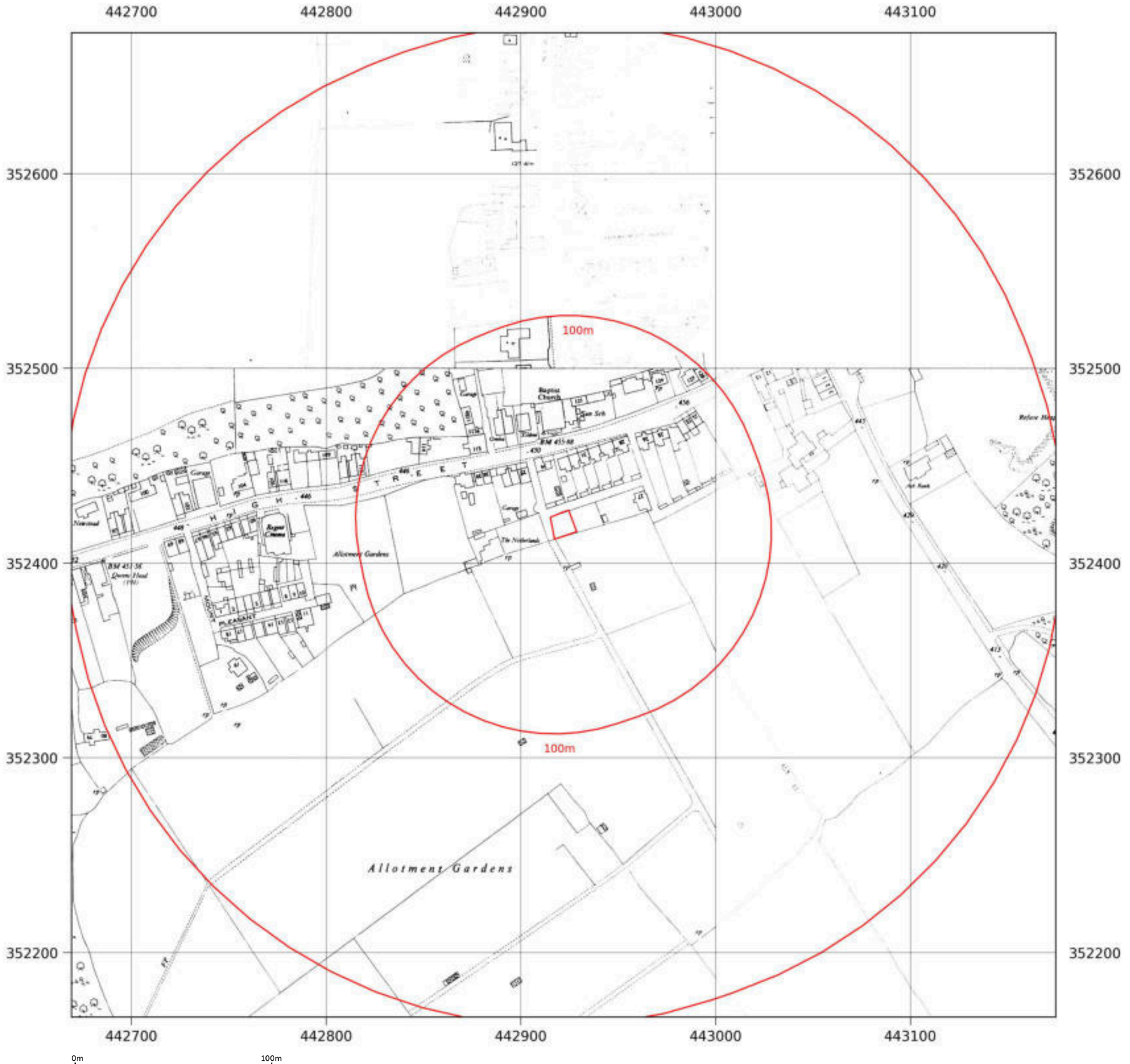

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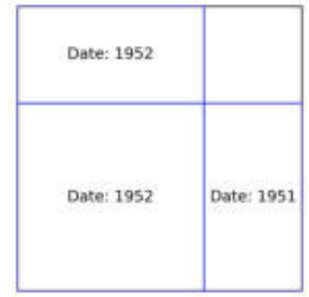

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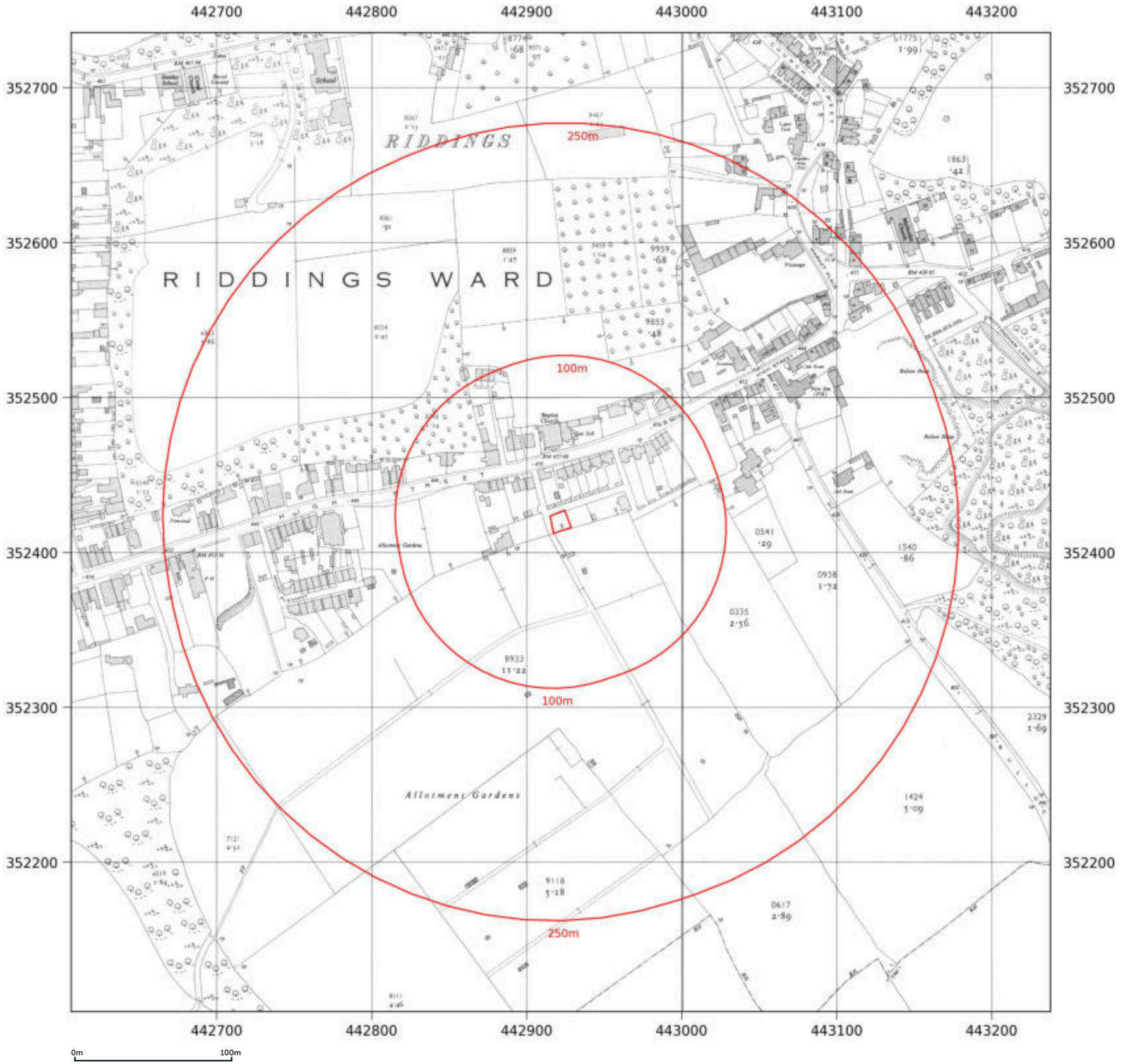

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Map legend available at:
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Site details:	Rear of 34 High Street, Riddings, Alfreton, DE55 4BN
Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1961
Scale:	1:2,500
Printed at:	1:2,500

N
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S

Date: 1961
Surveyed: 1960
Revised: 1960
Edition: 1961
Copyright: 1961
Levelled: 1957

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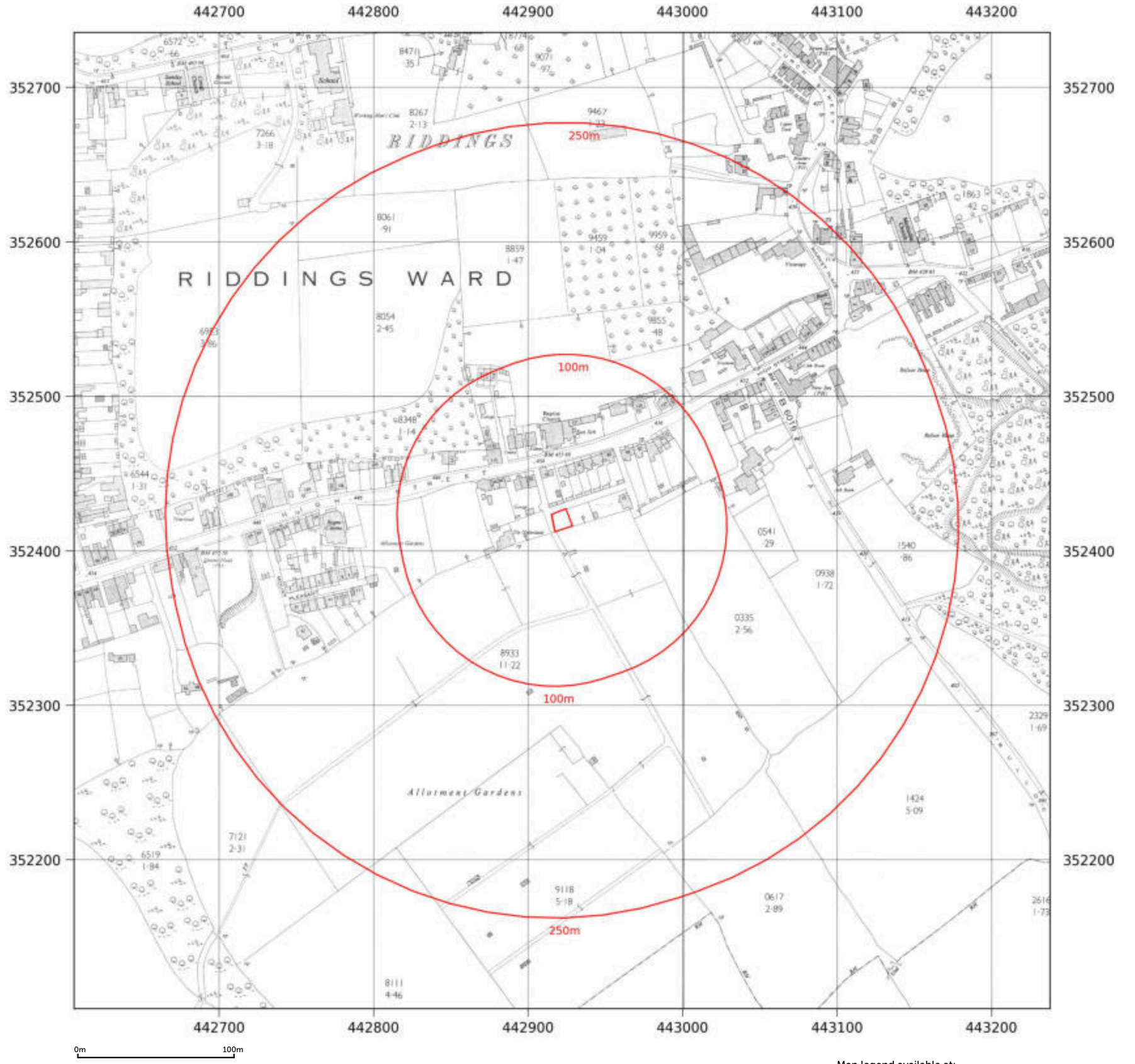

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1966
Scale:	1:2,500
Printed at:	1:2,500

N
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Date: 1966
Surveyed: 1950
Revised: 1964
Copyright: 1966
Levelled: 1961

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1966
Scale:	1:2,500
Printed at:	1:2,500

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442700 442800 442900 443000 443100 443200

352700 352600 352500 352400 352300 352200

250m
100m
100m
250m

0m 100m

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1972
Scale:	1:1,250
Printed at:	1:2,000

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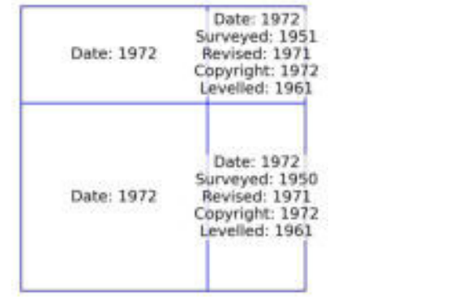

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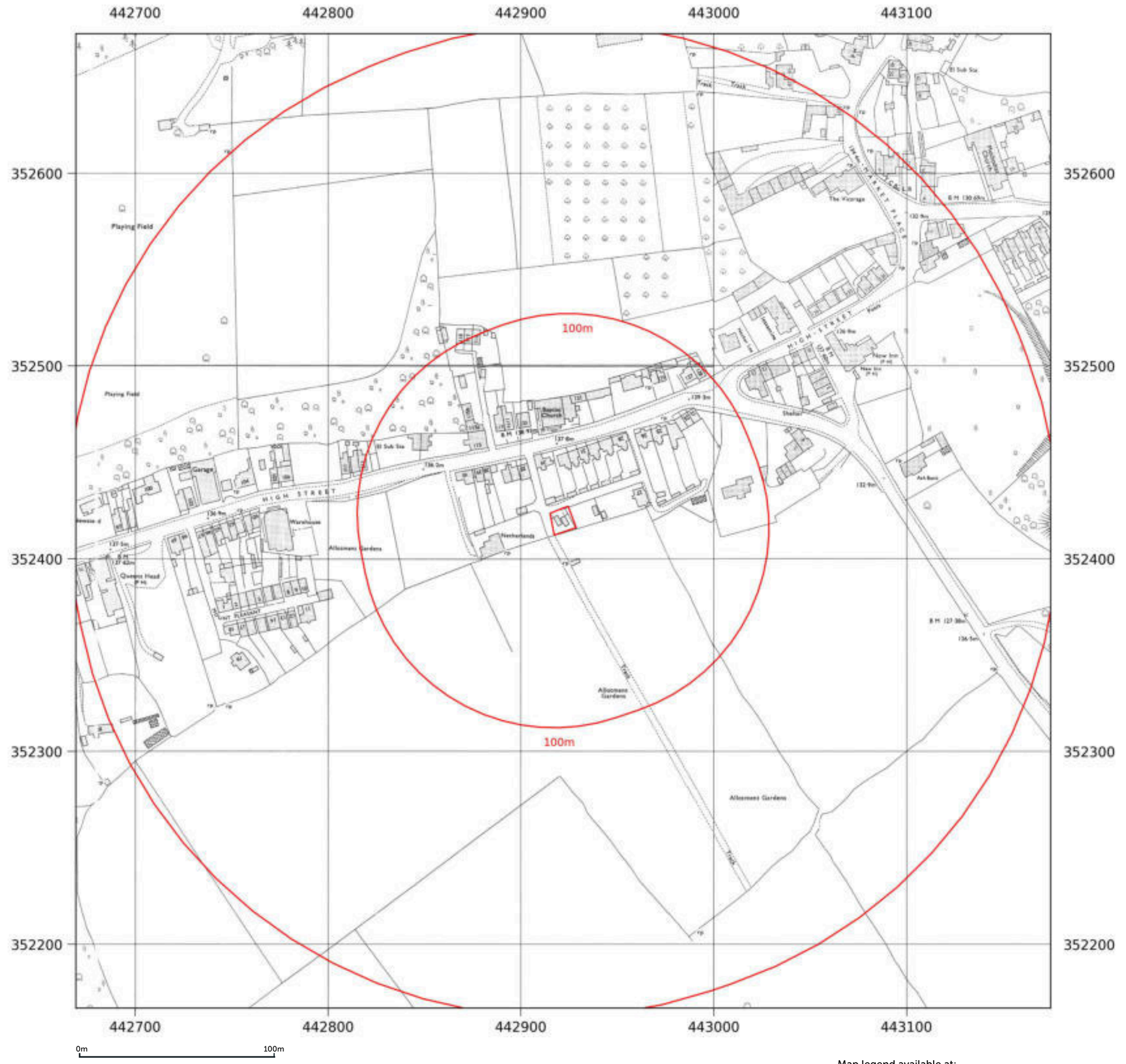

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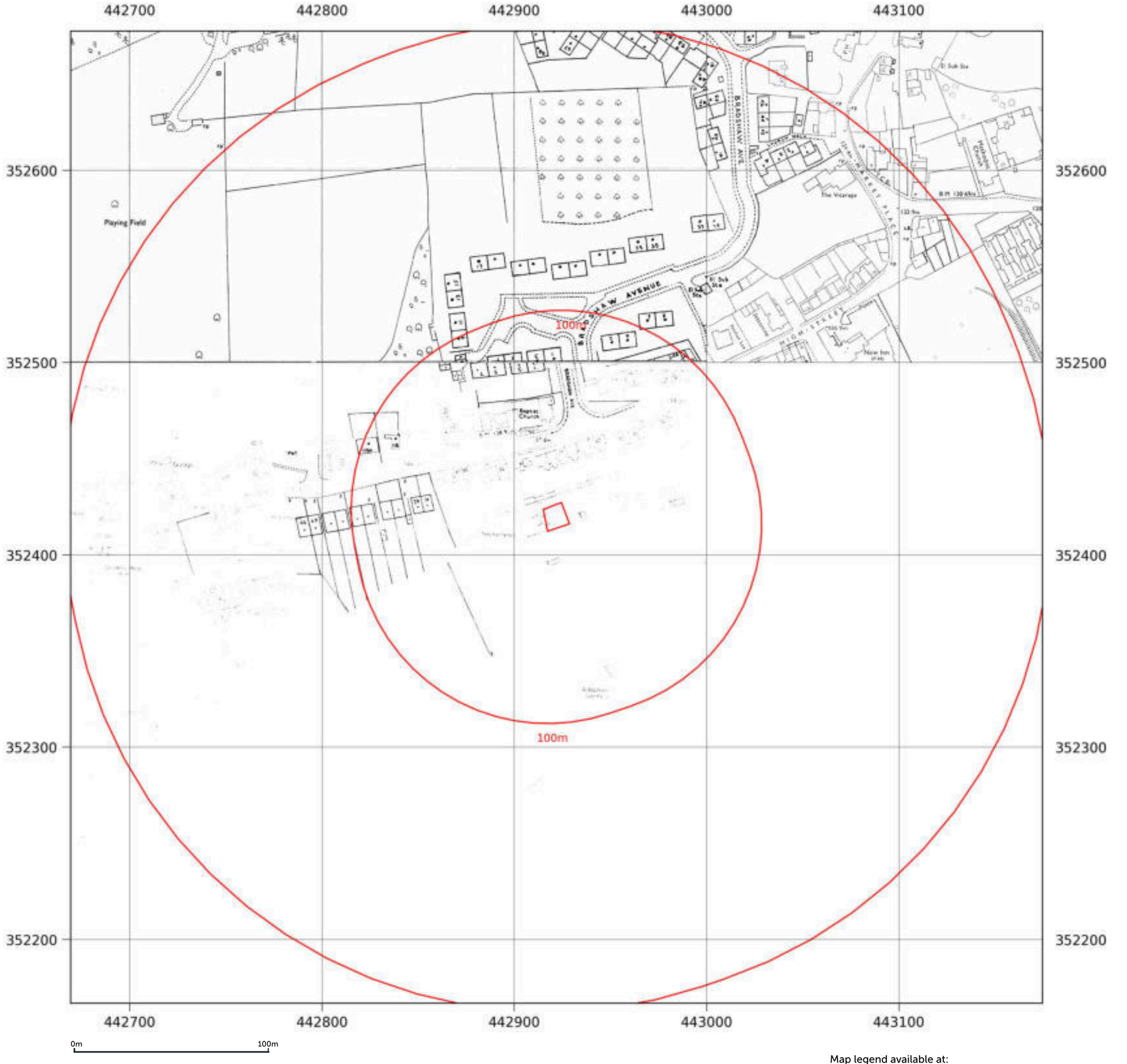

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1977-1981
Scale:	1:1,250
Printed at:	1:2,000

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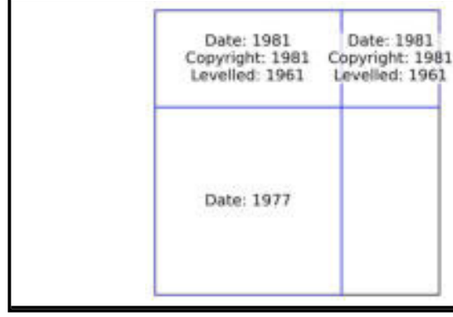

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1981-1985
Scale:	1:1,250
Printed at:	1:2,000

N

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S

Date: 1981
Copyright: 1981
Levelled: 1961

Date: 1985
Surveyed: 1950
Revised: 1984
Copyright: 1985
Levelled: 1961

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442700 442800 442900 443000 443100

352600 352500 352400 352300 352200

100m

100m

0m 100m

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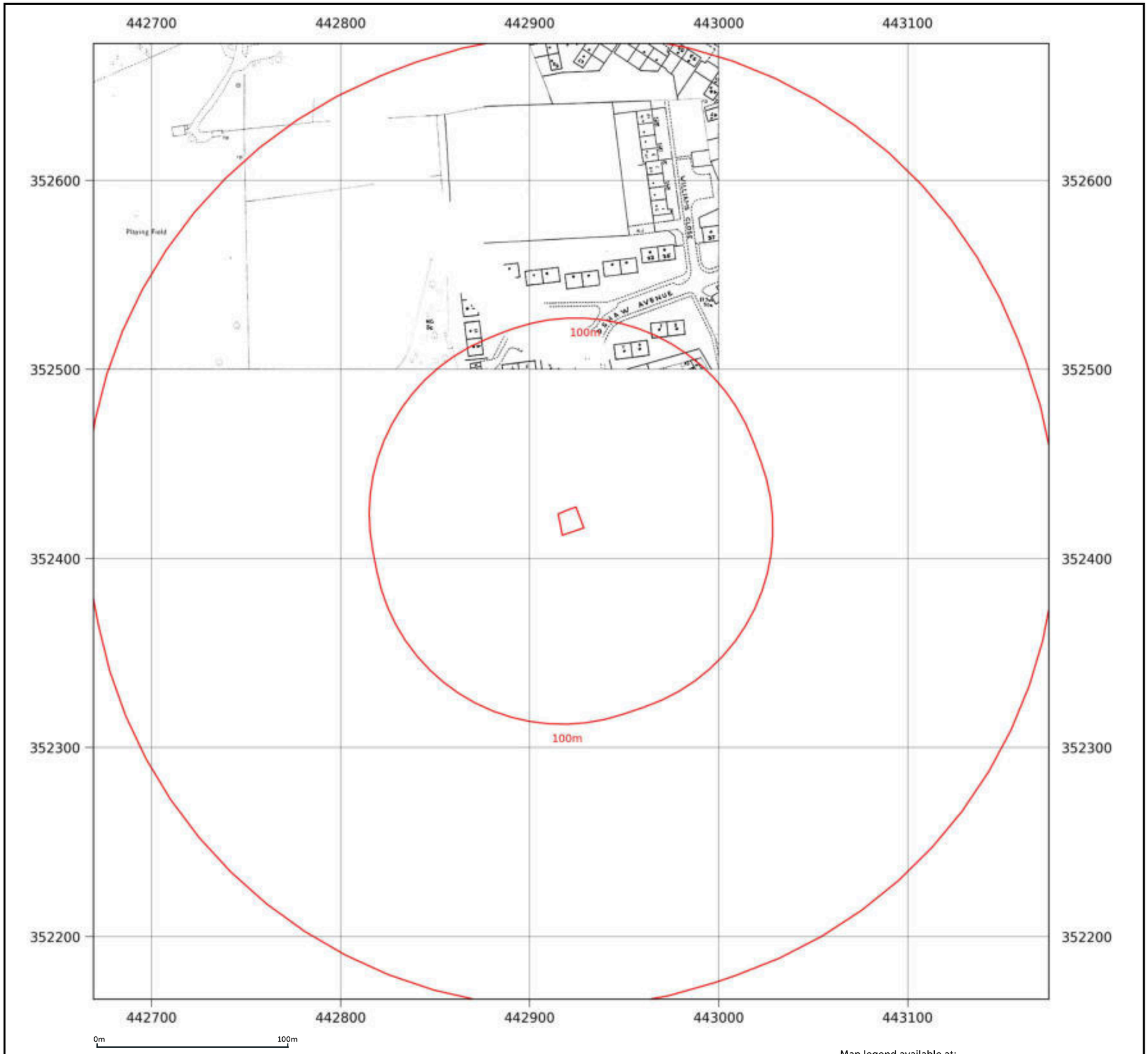

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1986
Scale:	1:1,250
Printed at:	1:2,000

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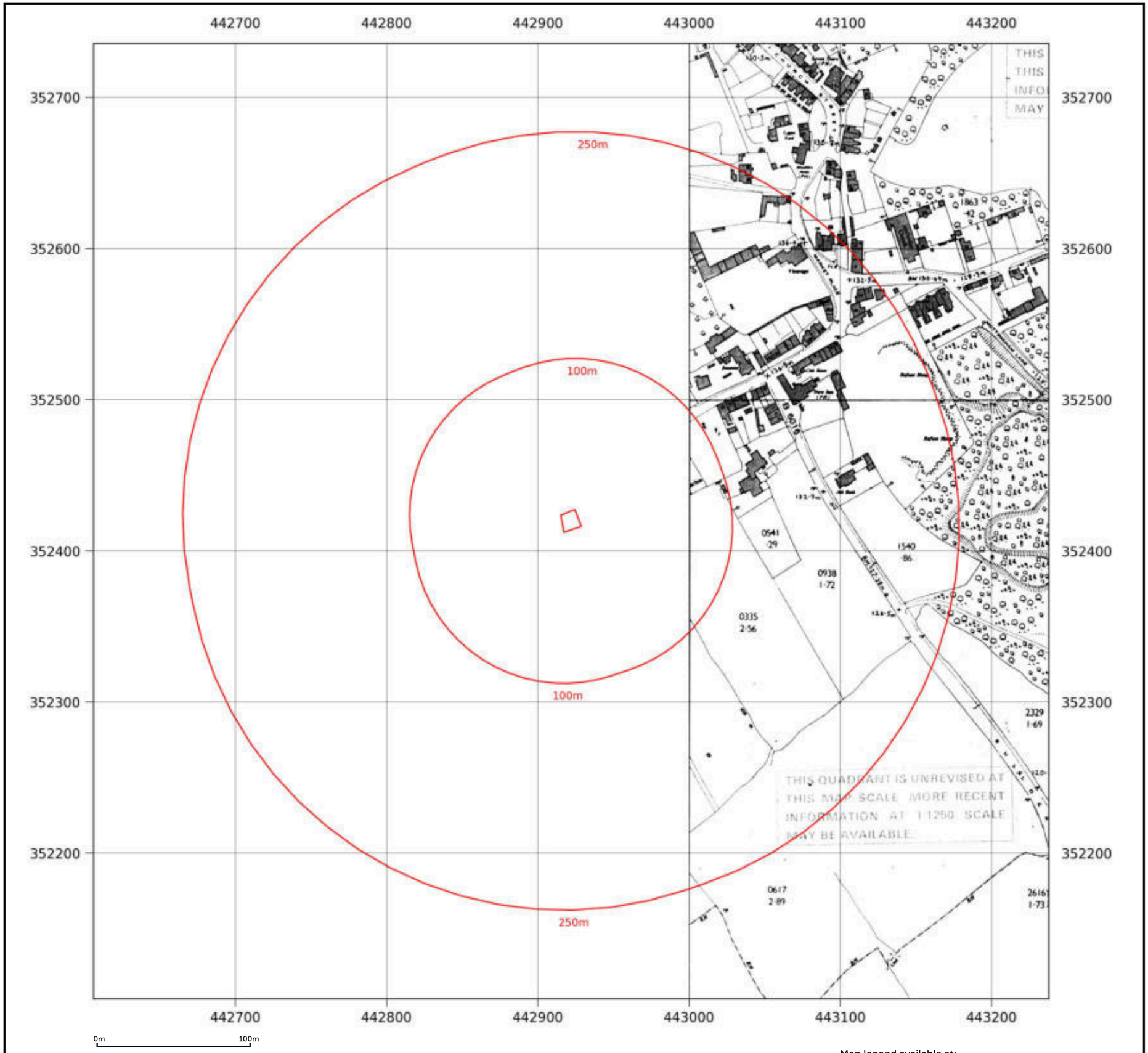

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1986
Scale:	1:2,500
Printed at:	1:2,500

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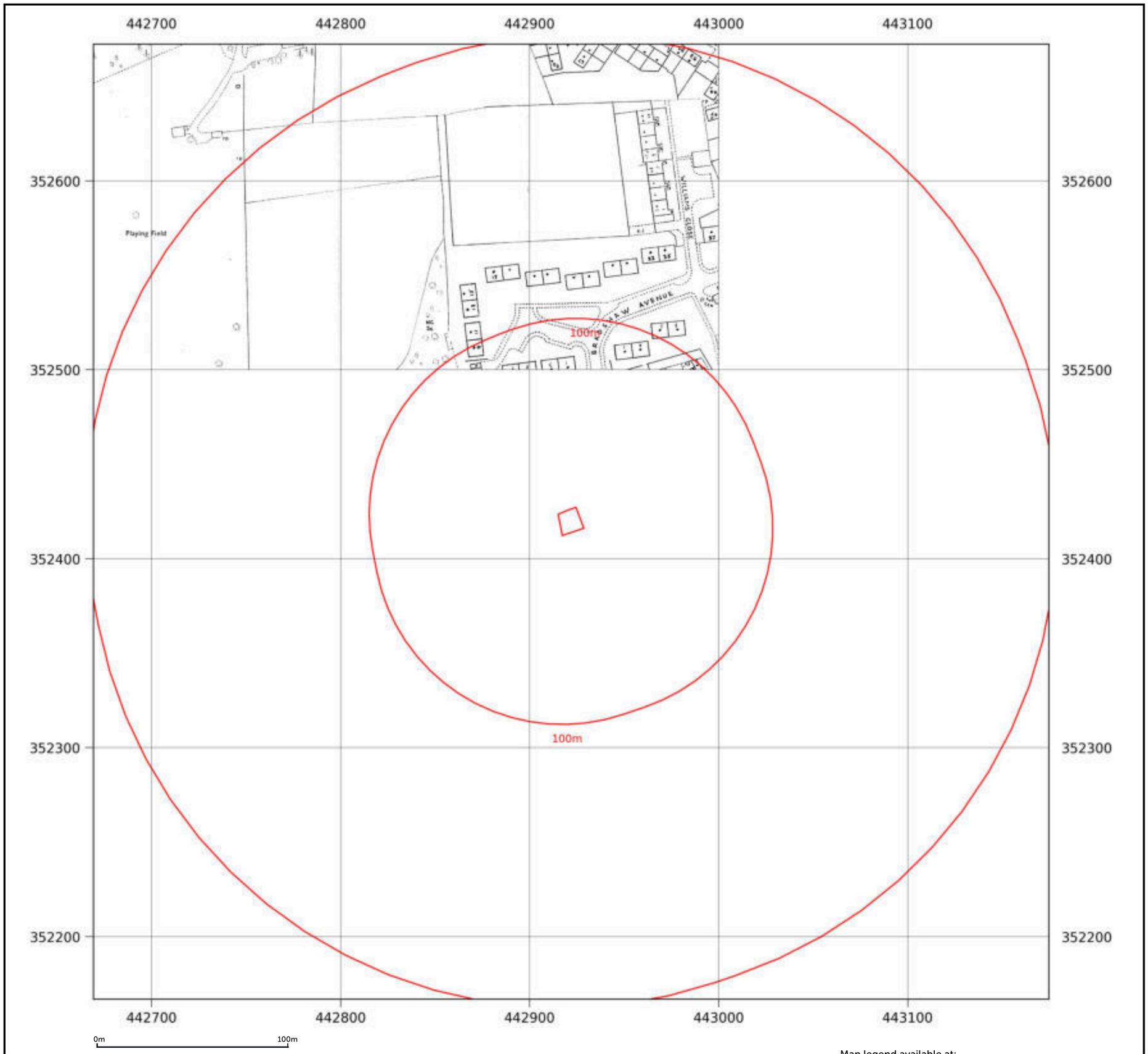

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1987
Scale:	1:1,250
Printed at:	1:2,000

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1994
Scale:	1:1,250
Printed at:	1:2,000

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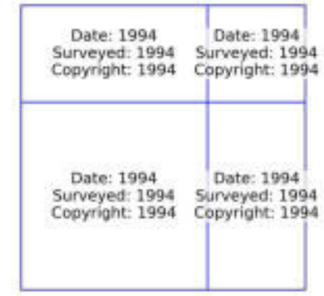

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	LandLine
Map date:	2003
Scale:	1:1,250
Printed at:	1:1,250

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	County Series
Map date:	1880
Scale:	1:10,560
Printed at:	1:10,560

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	County Series
Map date:	1898-1899
Scale:	1:10,560
Printed at:	1:10,560

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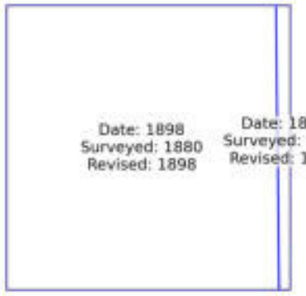

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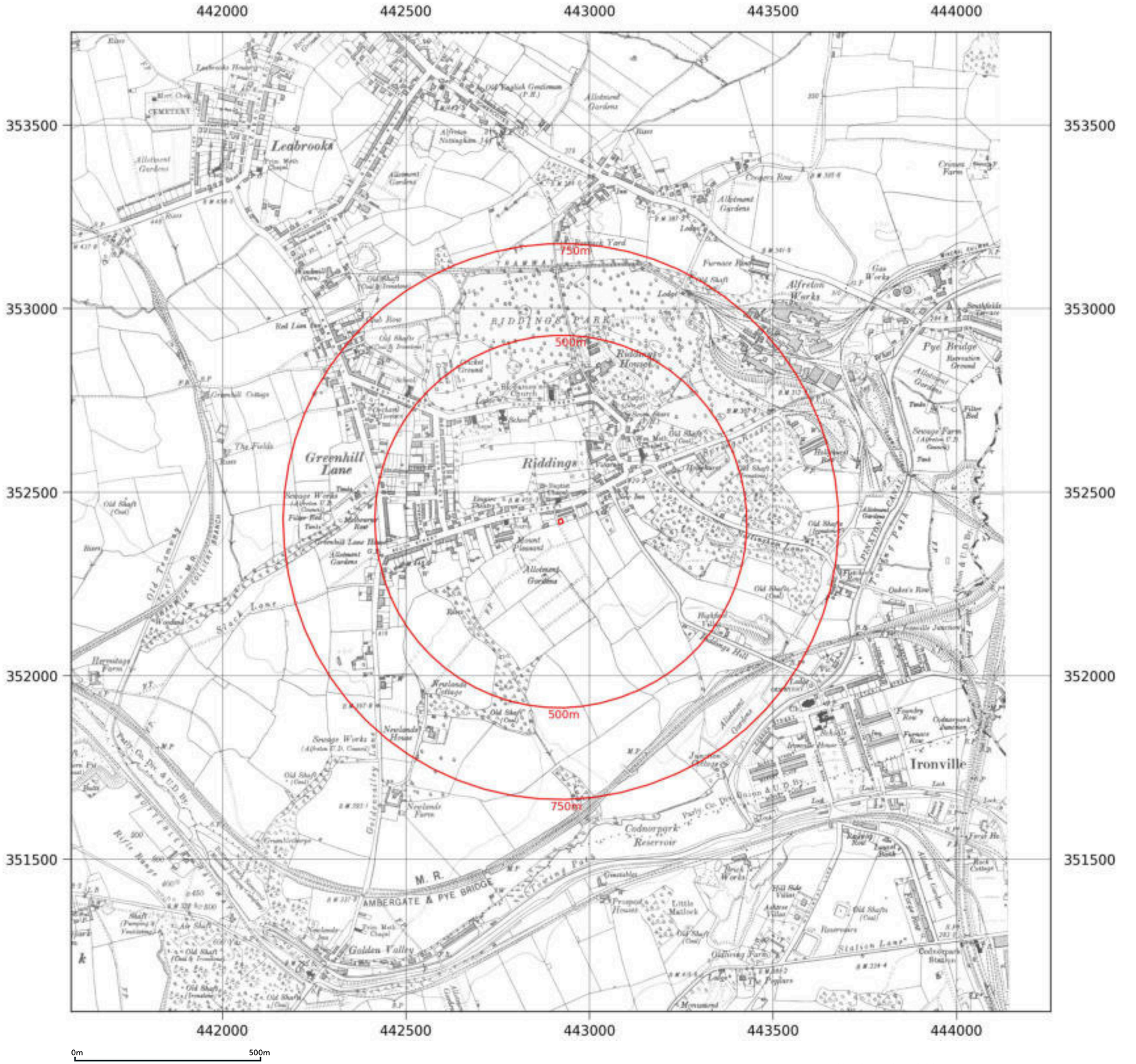

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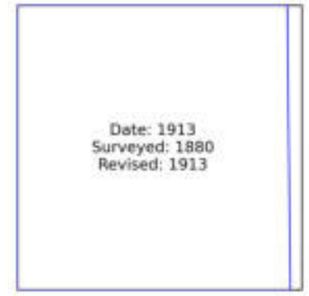
Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	County Series
Map date:	1913
Scale:	1:10,560
Printed at:	1:10,560

N W E S



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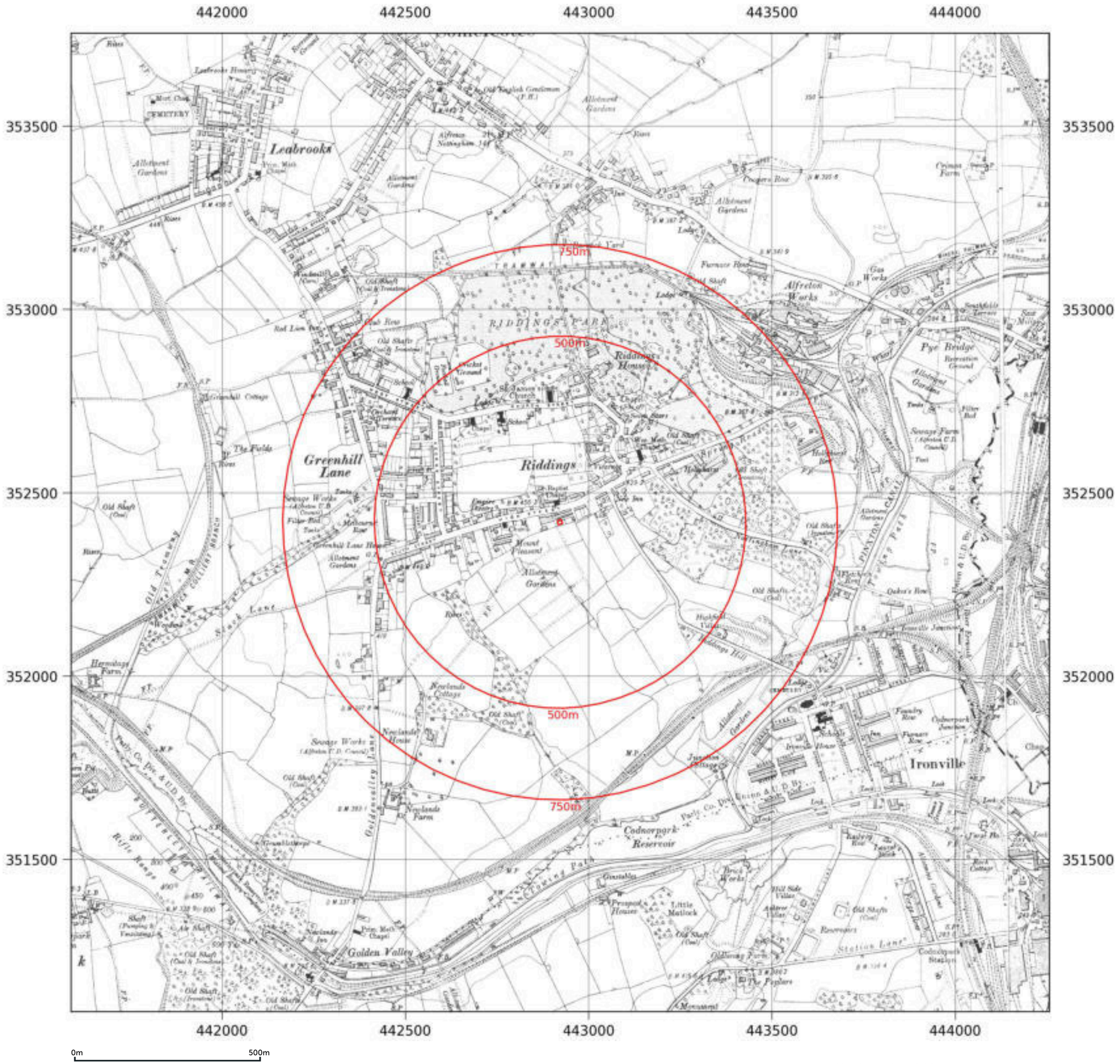

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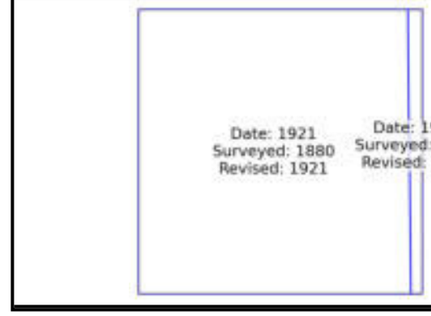
Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	County Series
Map date:	1921
Scale:	1:10,560
Printed at:	1:10,560

N W E S



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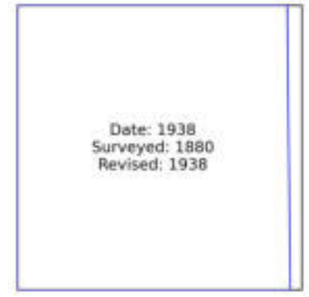
Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	County Series
Map date:	1938
Scale:	1:10,560
Printed at:	1:10,560

N W E S



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Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	Provisional
Map date:	1950
Scale:	1:10,560
Printed at:	1:10,560

N W E S

Date: 1950
Surveyed: 1950
Revised: 1950

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442000 442500 443000 443500 444000

353500 353000 352500 352000 351500

ALFRETON U D

ALFRETON

LOWER SOMERCOTES

BEABROOKS

RIDDINGS PARK

RIDDINGS

GREENHILL LANE

750m

500m

500m

750m

0m 500m

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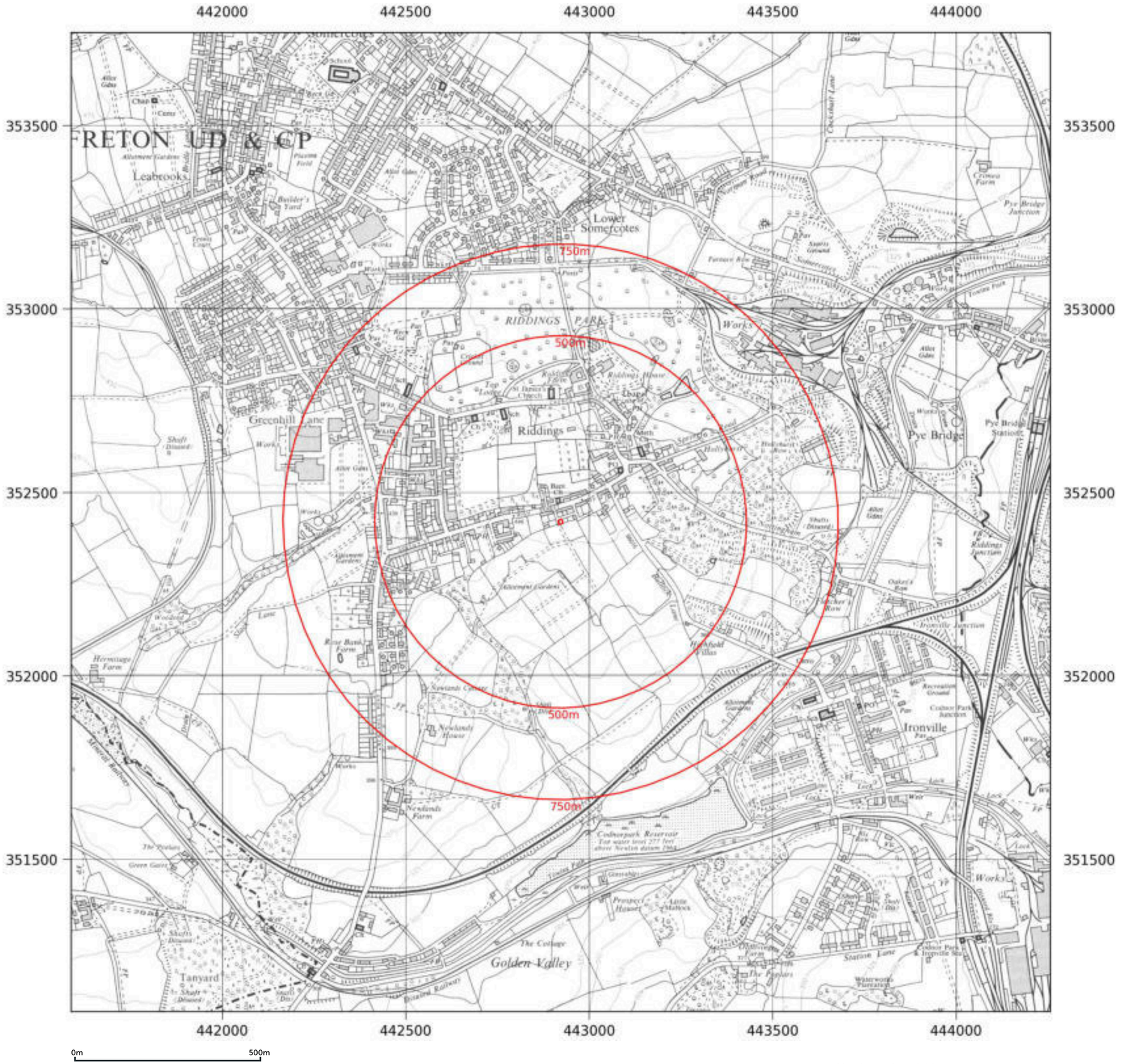

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	Provisional
Map date:	1967
Scale:	1:10,560
Printed at:	1:10,560

N
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Date: 1967
Surveyed: 1967
Revised: 1967

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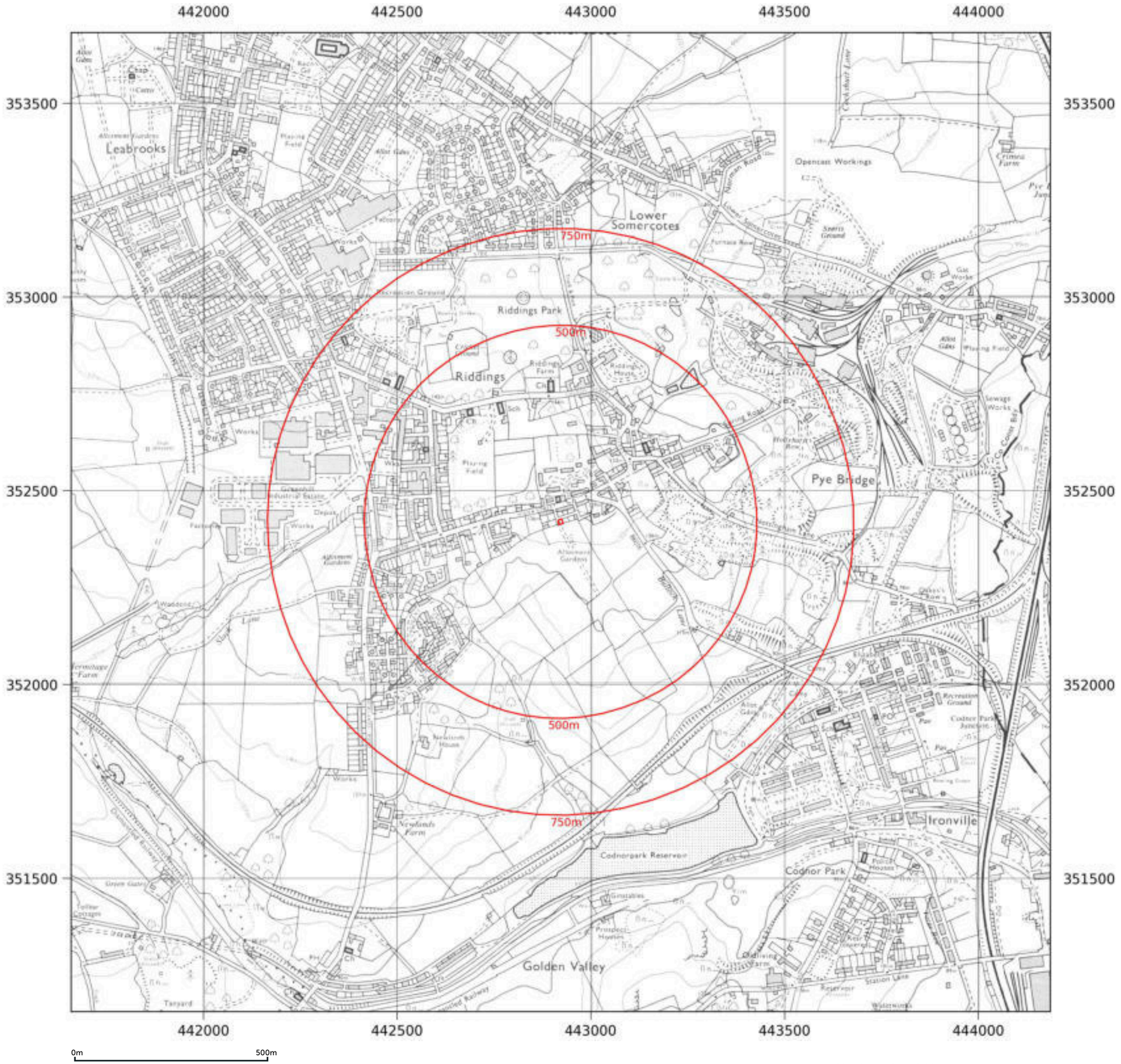

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1978
Scale:	1:10,000
Printed at:	1:10,000

N W E S

Date: 1978
Surveyed: 1974
Revised: 1977
Copyright: 1978
Levelled: 1964

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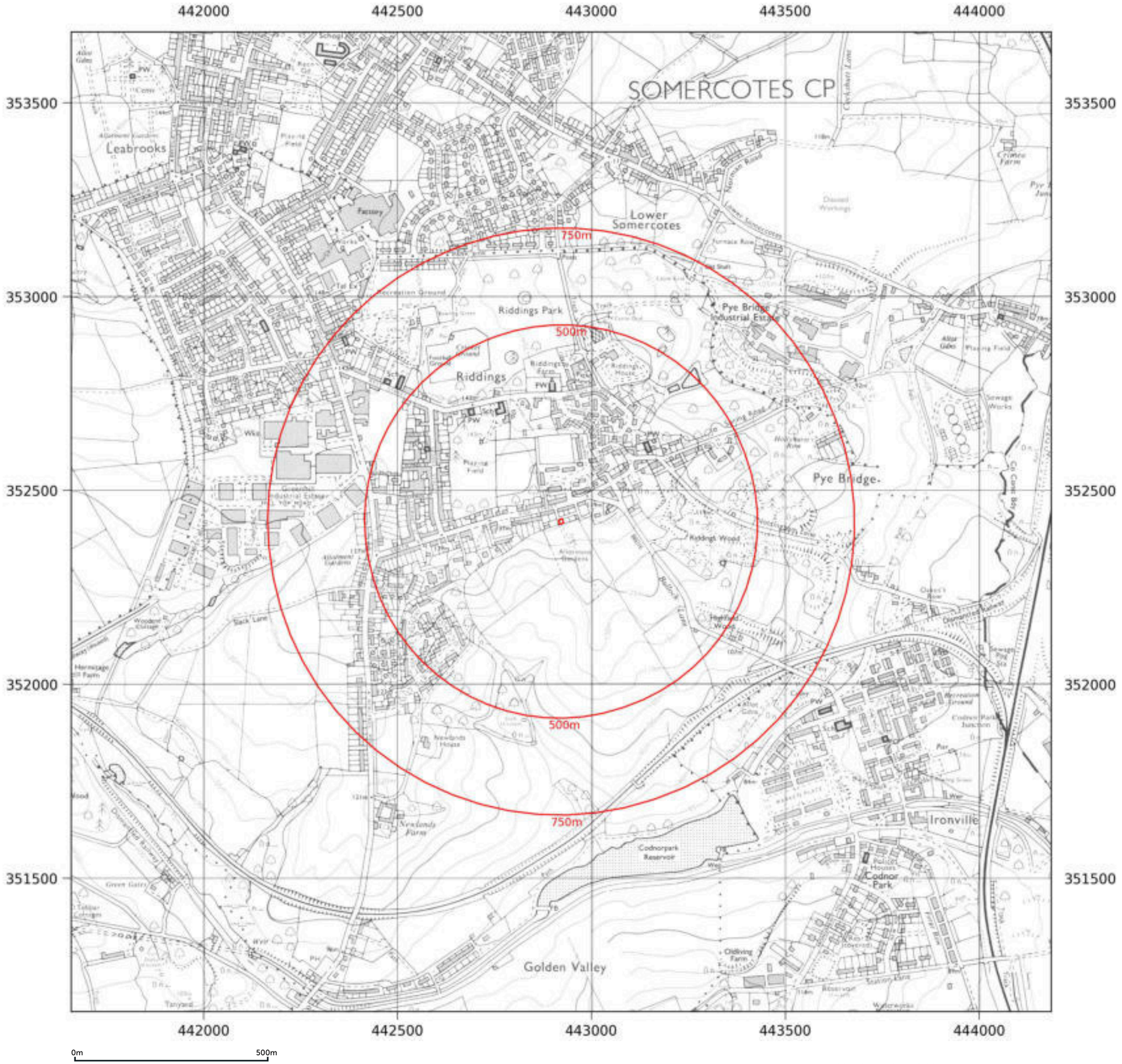

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	1988
Scale:	1:10,000
Printed at:	1:10,000

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Date: 1988
Surveyed: 1985
Revised: 1988

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	2001
Scale:	1:10,000
Printed at:	1:10,000

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Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	2010
Scale:	1:10,000
Printed at:	1:10,000

N W E S

Date: 2010

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Map Insight

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EMAPSITE™

Geospatial advantage from Idox

Site details:	Rear of 34 High Street, Riddings, Alfreton, DE55 4BN
Client ref:	EMS_1132355_1428353
Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	2015
Scale:	1:10,000
Printed at:	1:10,000

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Site details:	Rear of 34 High Street, Riddings, Alfreton, DE55 4BN
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Report ref:	EMS-1132355_1417931
Grid ref:	442921.46, 352419.66
Production date:	1 October 2026

Map name:	National Grid
Map date:	2025
Scale:	1:10,000
Printed at:	1:10,000

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Date: 2025

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442000 442500 443000 443500 444000

353500 353000 352500 352000 351500

Leabrooks

Riddings

Riddings Park

Pye B

Ironville

Arthurs View

Newlands Inn

Golden Valley

Riddings Wood

Highfield Wood

750m

500m

500m

750m

0m 500m

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Appendix C

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

Rear of 34 High Street, Riddings, Alfreton, DE55 4BN

Order Details

Date: 01/10/2026

Your ref: EMS_1132355_1428353

Our Ref: EMS-1132355_1417932

Site Details

Location: 442921 352419

Area: 0.02 ha

Authority: Amber Valley Borough Council ↗

Site plan



Quick Links

Summary of findings p. 2 >

OS MasterMap site plan p.14 >

Aerial image p. 9 >

Insight User Guide ↗

Interrogate this site with GIS data!

Insight data can also be purchased in GIS format to visualise and analyse the data

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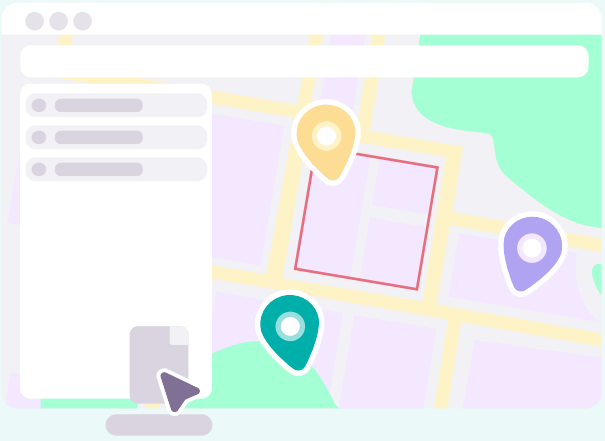
Access to Groundsure Insight GIS data is purchased on a 12 month licence.



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info@groundsure.com ↗
01273 257 755

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	0	11	65	-
18 >	1.2 >	Historical tanks >	0	0	0	9	-
19 >	1.3 >	Historical energy features >	0	0	4	4	-
20	1.4	Historical petrol stations	0	0	0	0	-
20 >	1.5 >	Historical garages >	0	2	5	7	-
21	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
22 >	2.1 >	Historical industrial land uses >	0	0	11	72	-
26 >	2.2 >	Historical tanks >	0	0	0	20	-
27 >	2.3 >	Historical energy features >	0	0	9	10	-
28	2.4	Historical petrol stations	0	0	0	0	-
28 >	2.5 >	Historical garages >	0	2	5	8	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
29	3.1	Active or recent landfill	0	0	0	0	-
29	3.2	Historical landfill (BGS records)	0	0	0	0	-
30	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
30	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
30	3.5	Historical waste sites	0	0	0	0	-
30	3.6	Licensed waste sites	0	0	0	0	-
30 >	3.7 >	Waste exemptions >	0	0	0	10	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
33 >	4.1 >	Recent industrial land uses >	0	0	2	-	-
34	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
34	4.3	Current or recent petrol stations	0	0	0	0	-
34	4.4	Sites determined as Contaminated Land	0	0	0	0	-
34	4.5	Control of Major Accident Hazards (COMAH)	0	0	0	0	-

34	4.6	Regulated explosive sites	0	0	0	0	-
35	4.7	Hazardous substance storage/usage	0	0	0	0	-
35	4.8	Historical licensed industrial activities (IPC)	0	0	0	0	-
35	4.9	Licensed industrial activities (Part A(1))	0	0	0	0	-
35	4.10	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
35	4.11	Radioactive Substance Authorisations	0	0	0	0	-
36	4.12	Licensed Discharges to controlled waters	0	0	0	0	-
36	4.13	Pollutant release to surface waters (Red List)	0	0	0	0	-
36	4.14	Pollutant release to public sewer	0	0	0	0	-
36	4.15	List 1 Dangerous Substances	0	0	0	0	-
36	4.16	List 2 Dangerous Substances	0	0	0	0	-
37	4.17	Pollution Incidents (EA/NRW)	0	0	0	0	-
37	4.18	Pollution inventory substances	0	0	0	0	-
37	4.19	Pollution inventory waste transfers	0	0	0	0	-
37	4.20	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
38	5.1	Superficial aquifer	None (within 500m)				
39 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
40 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
41	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
41	5.5	Groundwater vulnerability- local information	None (within 0m)				
42	5.6	Groundwater abstractions	0	0	0	0	0
42	5.7	Surface water abstractions	0	0	0	0	0
42	5.8	Potable abstractions	0	0	0	0	0
42	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 NGD)	0	0	0	-	-
44	6.2	Surface water features	0	0	0	-	-

45 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
45 >	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	Flood Storage Areas	0	0	0	-	-
49	7.5	Flood Zone 2	None (within 50m)				
49	7.6	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	1
54	10.7	Designated Ancient Woodland	0	0	0	0	0
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	1
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 >	2	0	0	0	3
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	0	1	-	-
61 >	11.5 >	Conservation Areas >	0	0	1	-	-
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	0	0	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 >	0	0	6	-	-
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	3	3	-
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) >	1	1	1	2	-

72 >	14.6 >	Bedrock faults and other linear features (10k) >	0	2	11	15	-
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	3	1	-
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) >	1	1	1	2	-
79 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
79 >	15.10 >	Bedrock faults and other linear features (50k) >	0	1	7	6	-
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 >	Low (within 50m)				
88 >	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
90 >	18.1 >	BritPits >	0	0	0	1	-
91 >	18.2 >	Surface ground workings >	0	0	10	-	-
92 >	18.3 >	Underground workings >	0	0	1	8	71
95	18.4	Underground mining extents	0	0	0	0	-
95 >	18.5 >	Historical Mineral Planning Areas >	0	1	0	1	-
95 >	18.6 >	Non-coal mining >	1	0	0	0	0
96	18.7	JPB mining areas	None (within 0m)				

96 >	18.8 >	The Coal Authority non-coal mining >	1	0	3	2	-
97	18.9	Researched mining	0	0	0	0	-
97	18.10	Mining record office plans	0	0	0	0	-
97	18.11	BGS mine plans	0	0	0	0	-
97 >	18.12 >	Coal mining >	Identified (within 0m)				
98	18.13	Brine areas	None (within 0m)				
98	18.14	Gypsum areas	None (within 0m)				
98	18.15	Tin mining	None (within 0m)				
98	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
99	19.1	Natural cavities	0	0	0	0	-
99	19.2	Mining cavities	0	0	0	0	0
99	19.3	Reported recent incidents	0	0	0	0	-
99	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
101 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
103 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	0	-	-	-
103	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
103	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
104	22.1	Underground railways (London)	0	0	0	-	-
104	22.2	Underground railways (Non-London)	0	0	0	-	-
104	22.3	Railway tunnels	0	0	0	-	-
104	22.4	Historical railway and tunnel features	0	0	0	-	-
104	22.5	Royal Mail tunnels	0	0	0	-	-
105	22.6	Historical railways	0	0	0	-	-
105	22.7	Railways	0	0	0	-	-
105	22.8	Crossrail 2	0	0	0	0	-

105	22.9	HS2		0	0	0	0	-

Recent aerial photograph



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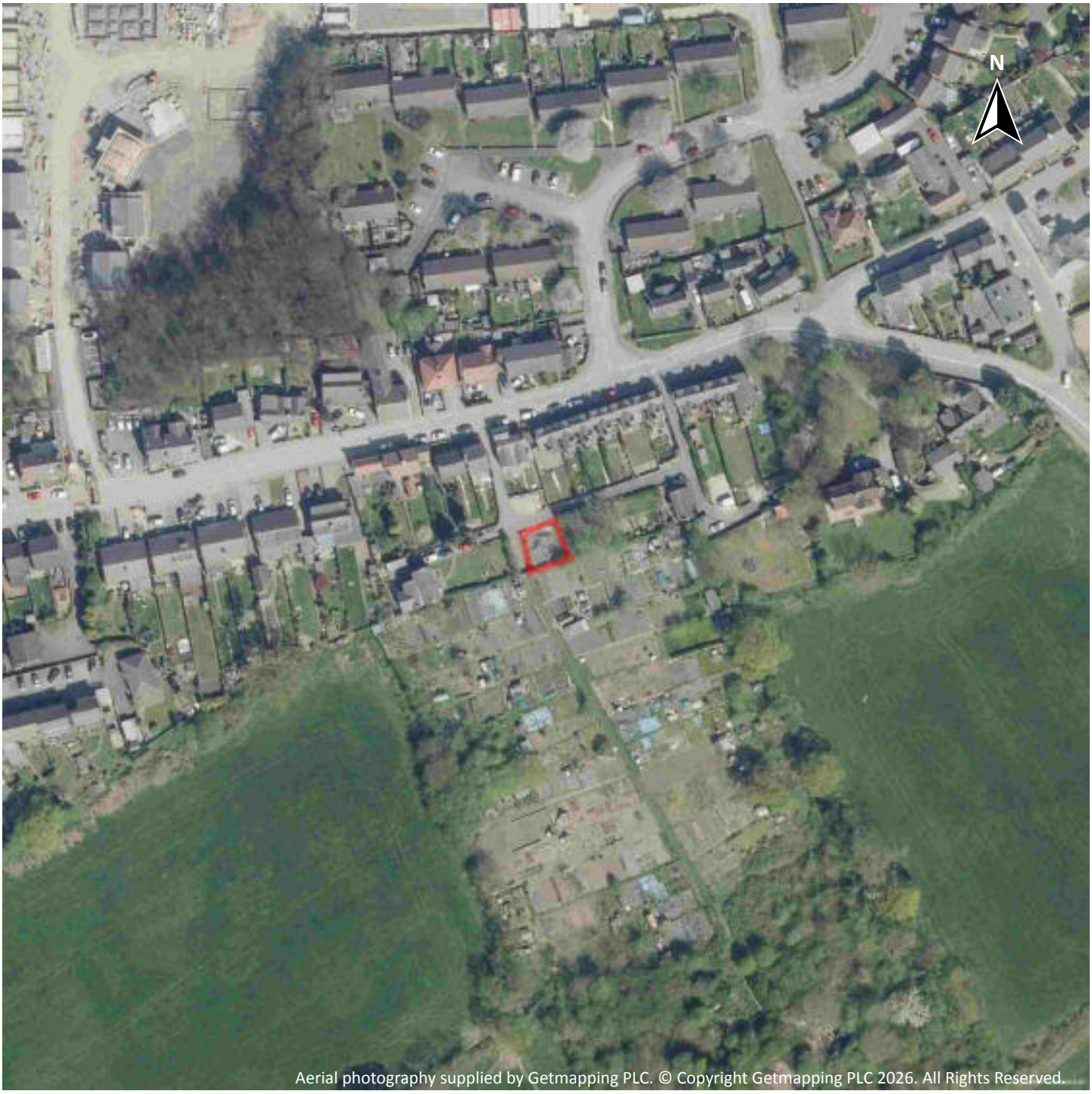
Capture Date: 21/06/2022

Site Area: 0.02ha

Recent site history - 2019 aerial photograph



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Capture Date: 20/04/2019

Site Area: 0.02ha

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Capture Date: 03/10/2016

Site Area: 0.02ha

Recent site history - 2010 aerial photograph



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Capture Date: 20/10/2010

Site Area: 0.02ha

Recent site history - 1999 aerial photograph



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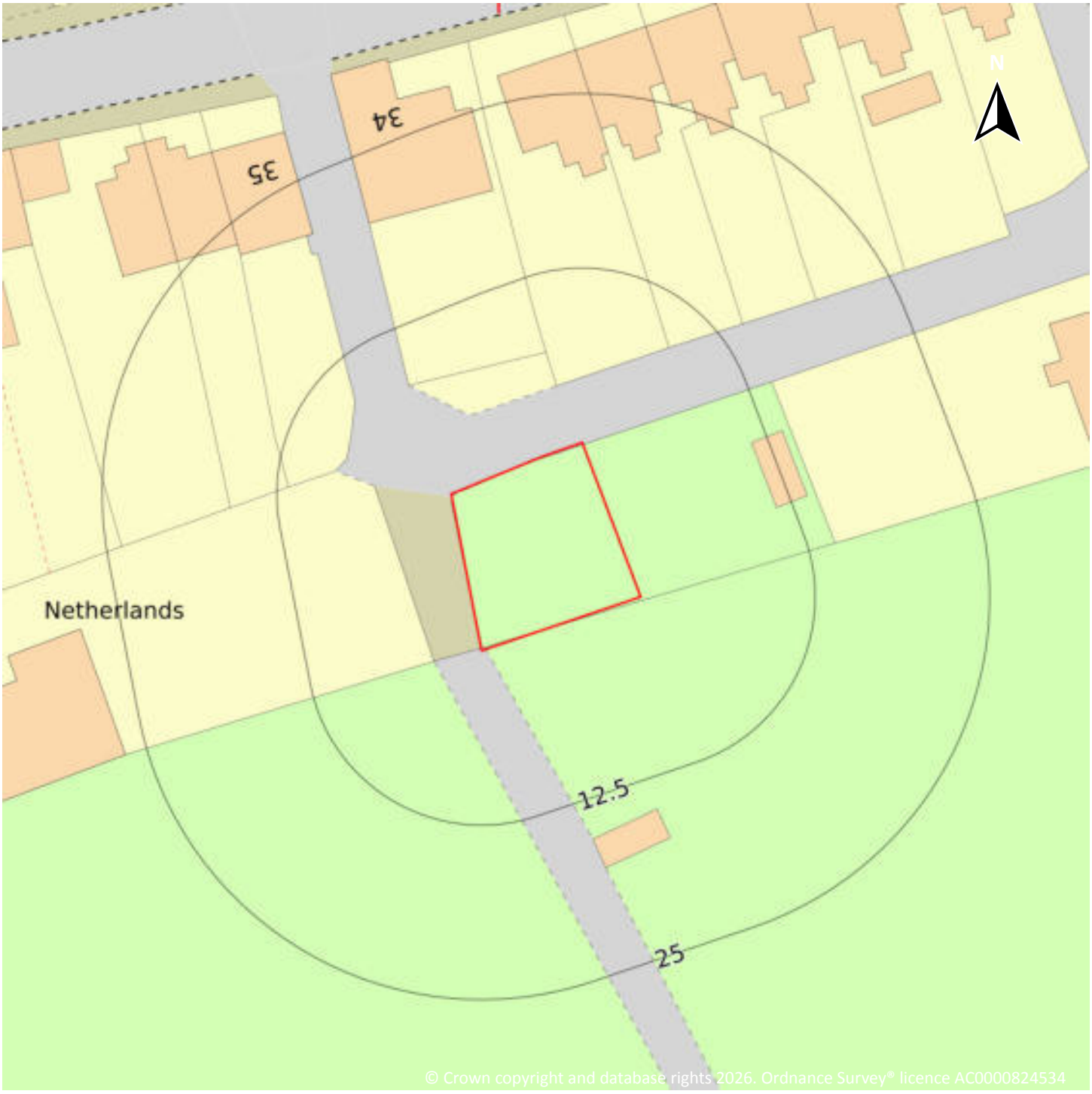
Capture Date: 06/11/1999

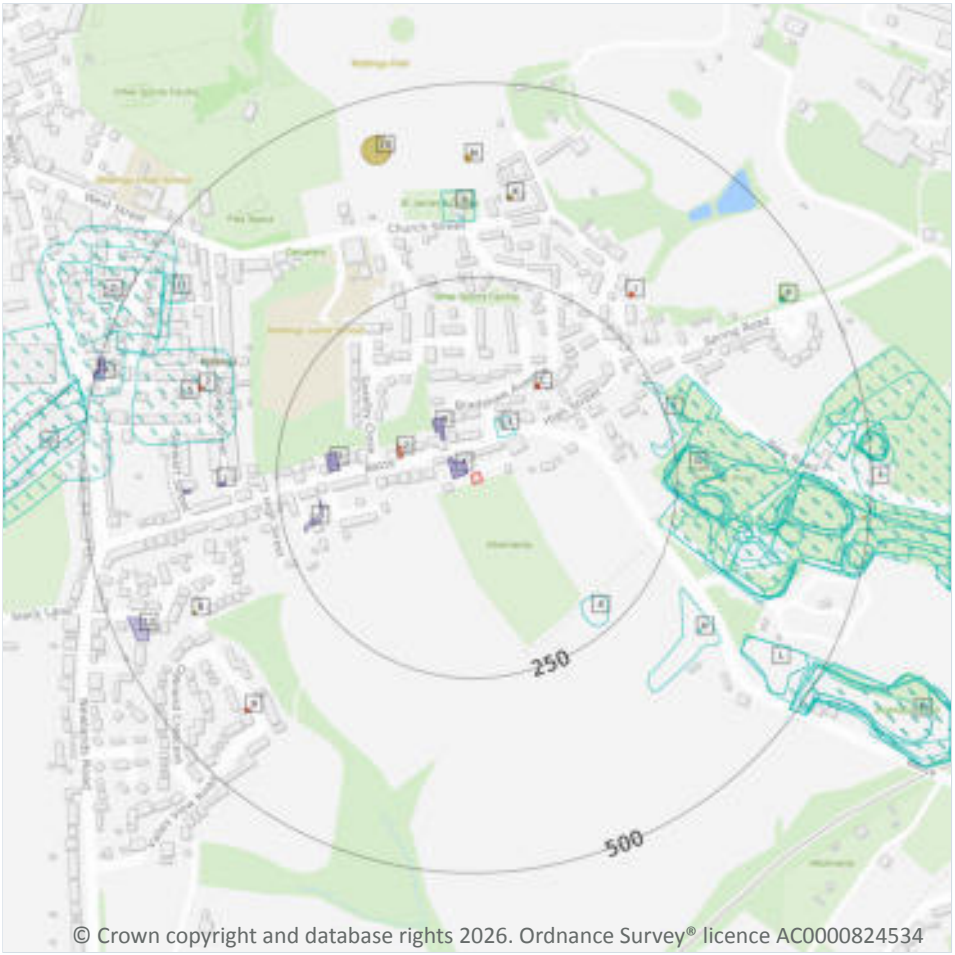
Site Area: 0.02ha

OS MasterMap site plan



Site Area: 0.02ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	76

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 15 >**

ID	Location	Land use	Dates present	Group ID
1	51m NE	Smithy	1880	1609506

ID	Location	Land use	Dates present	Group ID
4	201m SE	Unspecified Heap	1880	1620726
E	223m E	Refuse Heap	1967	1587194
F	231m E	Collieries	1880	1596095
G	232m E	Unspecified Heap	1921	1720224
F	233m E	Unspecified Heap	1938	1681635
F	233m E	Unspecified Heap	1913	1727077
G	236m E	Unspecified Heap	1898	1659087
G	236m E	Unspecified Ground Workings	1950	1592183
G	240m E	Unspecified Heaps	1978	1704820
G	240m E	Unspecified Heaps	1988	1748220
F	255m E	Unspecified Pit	1880 - 1898	1705195
E	262m E	Unspecified Heap	1880	1620641
H	290m SE	Unspecified Heap	1880	1620727
F	302m E	Refuse Heap	1921	1587193
5	310m W	Unspecified Works	1967 - 1978	1683674
F	314m E	Unspecified Ground Workings	1950	1756982
F	317m E	Tramway Sidings	1880	1634832
6	323m N	Grave Yard	1880	1594219
F	334m E	Unspecified Pit	1921	1655740
F	335m E	Unspecified Ground Workings	1988	1705218
F	335m E	Unspecified Ground Workings	1978	1738384
H	337m SE	Unspecified Old Shaft	1880	1600961
F	358m E	Unspecified Heaps	1921	1688386
F	361m E	Unspecified Ground Workings	1950	1672938
F	369m E	Unspecified Ground Workings	1978	1715179
F	369m E	Unspecified Ground Workings	1988	1750007
F	383m E	Unspecified Heap	1967	1721155
F	386m E	Unspecified Heaps	1988	1670527

ID	Location	Land use	Dates present	Group ID
F	386m E	Unspecified Heaps	1978	1708665
F	393m E	Unspecified Heap	1967	1679991
L	393m SE	Unspecified Heaps	1967	1689833
L	393m SE	Unspecified Heaps	1988	1723596
M	394m SE	Unspecified Heaps	1978	1670960
F	399m E	Unspecified Heap	1898	1743536
O	427m NW	Unspecified Works	1967	1712620
11	431m NW	Smithy	1898	1609493
O	438m NW	Brick Field	1880	1583622
P	445m NE	Old Coal Shaft	1950	1763998
P	446m NE	Old Coal Shaft	1921	1650269
P	446m NE	Old Coal Shaft	1913	1657650
P	446m NE	Old Coal Shaft	1938	1707017
P	448m NE	Unspecified Old Shaft	1880	1600929
F	449m E	Unspecified Ground Workings	1978	1668229
F	449m E	Unspecified Ground Workings	1988	1679693
F	454m E	Unspecified Ground Workings	1967 - 1978	1694616
F	454m E	Unspecified Ground Workings	1988	1739277
Q	463m W	Unspecified Depot	1978	1598786
F	464m E	Cuttings	1921	1585311
F	471m E	Unspecified Heap	1950	1663793
F	474m E	Unspecified Heap	1880	1703320
F	479m E	Unspecified Heap	1967 - 1978	1756096
F	479m E	Unspecified Heap	1988	1766367
F	479m E	Unspecified Heap	1967 - 1978	1638132
F	479m E	Unspecified Heap	1988	1751791
M	481m SE	Unspecified Heap	1880	1675831
F	484m E	Unspecified Heap	1921	1755757

ID	Location	Land use	Dates present	Group ID
F	486m E	Unspecified Heap	1880	1725763
M	486m SE	Unspecified Heap	1913	1640707
M	486m SE	Unspecified Heap	1938	1698255
F	487m E	Unspecified Heap	1950	1737341
L	487m SE	Unspecified Old Shaft	1880	1600960
F	487m E	Unspecified Heap	1938	1717868
F	487m E	Unspecified Heap	1898 - 1913	1773196
F	489m E	Unspecified Heap	1967 - 1978	1643427
F	489m E	Unspecified Heap	1988	1733149
M	490m SE	Unspecified Heap	1921	1715122
M	491m SE	Unspecified Heap	1950	1743303
Q	493m W	Industrial Estate	1988	1750015
O	496m NW	Unspecified Kiln	1880	1624547
M	496m SE	Unspecified Heap	1988	1640047
M	496m SE	Unspecified Heap	1967	1652065
Q	499m W	Sewage Works	1913	1690851
Q	499m W	Sewage Works	1921	1708874
Q	499m W	Sewage Works	1938 - 1950	1736075
Q	499m W	Sewage Works	1898	1764561

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m	**9**

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'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
K	352m N	Unspecified Tank	1900 - 1938	280534
K	354m N	Unspecified Tank	1950 - 1987	292761
8	392m SW	Unspecified Tank	1985 - 1994	281093
N	400m N	Unspecified Tank	1938	275525
N	400m N	Unspecified Tank	1880 - 1900	286565
10	416m N	Unspecified Tank	1938	272057
P	447m NE	Unspecified Tank	1938	272058
P	451m NE	Unspecified Tank	1994	272040
F	491m E	Unspecified Tank	1880	272053

This data is sourced from Ordnance Survey® / Groundsure.

1.3 Historical energy features

Records within 500m	**8**

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'.

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
2	91m W	Electricity Substation	1985 - 1994	179483
C	131m NE	Electricity Substation	1981 - 1994	167286
C	132m NE	Electricity Substation	1981	169850
C	132m NE	Electricity Substation	1994	177180
I	297m NE	Electricity Substation	1972 - 1981	170999
I	297m NE	Electricity Substation	1994	178589
7	361m W	Electricity Substation	1981 - 1994	168690
9	407m SW	Electricity Substation	1985 - 1994	184605

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	14

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 15 >**

ID	Location	Land use	Dates present	Group ID
A	6m NW	Garage	1966	56569
A	6m NW	Garage	1950	54604
B	58m NW	Garage	1966	57590
B	58m NW	Garage	1950	57535
D	170m W	Garage	1966	58308
D	170m W	Garage	1950	56714
3	196m W	Garage	1950	52856
J	317m W	Garage	1950	55686
J	317m W	Garage	1966	55261
J	361m W	Garage	1950	59416
J	361m W	Garage	1966	57420
12	455m W	Garage	1950	52454
R	488m W	Garage	1951	57245
R	488m W	Garage	1951 - 1961	57519

This data is sourced from Ordnance Survey® / Groundsure.

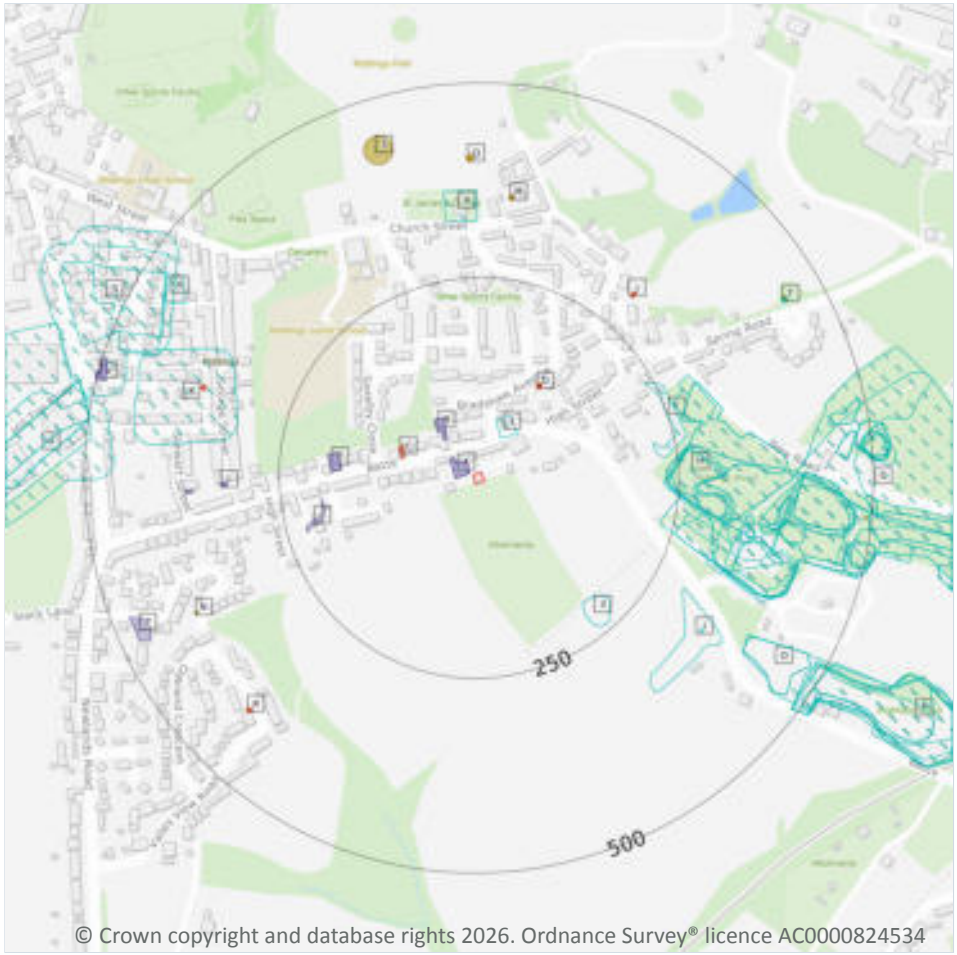
1.6 Historical military land

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



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	83

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 22 >**

ID	Location	Land Use	Date	Group ID
1	51m NE	Smithy	1880	1609506
3	201m SE	Unspecified Heap	1880	1620726
F	223m E	Refuse Heap	1967	1587194

ID	Location	Land Use	Date	Group ID
G	231m E	Collieries	1880	1596095
H	232m E	Unspecified Heap	1921	1720224
G	233m E	Unspecified Heap	1938	1681635
G	233m E	Unspecified Heap	1913	1727077
H	236m E	Unspecified Heap	1898	1659087
H	236m E	Unspecified Ground Workings	1950	1592183
H	240m E	Unspecified Heaps	1978	1704820
H	240m E	Unspecified Heaps	1988	1748220
G	255m E	Unspecified Pit	1898	1705195
G	261m E	Unspecified Pit	1880	1705195
F	262m E	Unspecified Heap	1880	1620641
I	290m SE	Unspecified Heap	1880	1620727
G	302m E	Refuse Heap	1921	1587193
K	310m W	Unspecified Works	1967	1683674
G	314m E	Unspecified Ground Workings	1950	1756982
G	317m E	Tramway Sidings	1880	1634832
4	323m N	Grave Yard	1880	1594219
G	334m E	Unspecified Pit	1921	1655740
G	335m E	Unspecified Ground Workings	1978	1738384
G	335m E	Unspecified Ground Workings	1988	1705218
I	337m SE	Unspecified Old Shaft	1880	1600961
G	358m E	Unspecified Heaps	1921	1688386
G	361m E	Unspecified Ground Workings	1950	1672938
G	369m E	Unspecified Ground Workings	1978	1715179
G	369m E	Unspecified Ground Workings	1988	1750007
G	383m E	Unspecified Heap	1967	1721155
G	386m E	Unspecified Heaps	1978	1708665
G	386m E	Unspecified Heaps	1988	1670527

ID	Location	Land Use	Date	Group ID
G	393m E	Unspecified Heap	1967	1679991
O	393m SE	Unspecified Heaps	1967	1689833
O	393m SE	Unspecified Heaps	1988	1723596
P	394m SE	Unspecified Heaps	1978	1670960
G	399m E	Unspecified Heap	1898	1743536
S	427m NW	Unspecified Works	1967	1712620
6	431m NW	Smithy	1898	1609493
S	433m W	Unspecified Works	1978	1683674
S	438m NW	Brick Field	1880	1583622
T	445m NE	Old Coal Shaft	1950	1763998
T	446m NE	Old Coal Shaft	1921	1650269
T	446m NE	Old Coal Shaft	1938	1707017
T	446m NE	Old Coal Shaft	1913	1657650
T	448m NE	Unspecified Old Shaft	1880	1600929
G	449m E	Unspecified Ground Workings	1978	1668229
G	449m E	Unspecified Ground Workings	1988	1679693
G	454m E	Unspecified Ground Workings	1967	1694616
G	454m E	Unspecified Ground Workings	1978	1694616
G	454m E	Unspecified Ground Workings	1988	1739277
U	463m W	Unspecified Depot	1978	1598786
G	464m E	Cuttings	1921	1585311
G	471m E	Unspecified Heap	1950	1663793
G	474m E	Unspecified Heap	1880	1703320
G	479m E	Unspecified Heap	1967	1756096
G	479m E	Unspecified Heap	1978	1756096
G	479m E	Unspecified Heap	1988	1766367
G	479m E	Unspecified Heap	1967	1638132
G	479m E	Unspecified Heap	1978	1638132

ID	Location	Land Use	Date	Group ID
G	479m E	Unspecified Heap	1988	1751791
P	481m SE	Unspecified Heap	1880	1675831
G	484m E	Unspecified Heap	1921	1755757
G	486m E	Unspecified Heap	1880	1725763
P	486m SE	Unspecified Heap	1938	1698255
P	486m SE	Unspecified Heap	1913	1640707
G	487m E	Unspecified Heap	1950	1737341
O	487m SE	Unspecified Old Shaft	1880	1600960
G	487m E	Unspecified Heap	1938	1717868
G	487m E	Unspecified Heap	1913	1773196
G	487m E	Unspecified Heap	1898	1773196
G	489m E	Unspecified Heap	1967	1643427
G	489m E	Unspecified Heap	1978	1643427
G	489m E	Unspecified Heap	1988	1733149
P	490m SE	Unspecified Heap	1921	1715122
P	491m SE	Unspecified Heap	1950	1743303
U	493m W	Industrial Estate	1988	1750015
S	496m NW	Unspecified Kiln	1880	1624547
P	496m SE	Unspecified Heap	1967	1652065
P	496m SE	Unspecified Heap	1988	1640047
U	499m W	Sewage Works	1938	1736075
U	499m W	Sewage Works	1913	1690851
U	499m W	Sewage Works	1898	1764561
U	499m W	Sewage Works	1921	1708874

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m	20

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'.

Features are displayed on the Past land use - un-grouped map on **page 22 >**

ID	Location	Land Use	Date	Group ID
M	352m N	Unspecified Tank	1900	280534
M	352m N	Unspecified Tank	1917	280534
M	352m N	Unspecified Tank	1938	280534
M	354m N	Unspecified Tank	1961	292761
M	354m N	Unspecified Tank	1966	292761
M	354m N	Unspecified Tank	1951	292761
M	354m N	Unspecified Tank	1950	292761
M	354m N	Unspecified Tank	1981	292761
M	354m N	Unspecified Tank	1981	292761
M	354m N	Unspecified Tank	1986	292761
M	354m N	Unspecified Tank	1987	292761
N	392m SW	Unspecified Tank	1994	281093
N	392m SW	Unspecified Tank	1985	281093
Q	400m N	Unspecified Tank	1938	275525
Q	400m N	Unspecified Tank	1880	286565
Q	400m N	Unspecified Tank	1900	286565
5	416m N	Unspecified Tank	1938	272057
T	447m NE	Unspecified Tank	1938	272058
T	451m NE	Unspecified Tank	1994	272040
G	491m E	Unspecified Tank	1880	272053

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m	**19**

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'.

Features are displayed on the Past land use - un-grouped map on **page 22 >**

ID	Location	Land Use	Date	Group ID
C	91m W	Electricity Substation	1994	179483
C	96m W	Electricity Substation	1985	179483
D	131m NE	Electricity Substation	1994	167286
D	132m NE	Electricity Substation	1981	169850
D	132m NE	Electricity Substation	1987	167286
D	132m NE	Electricity Substation	1981	167286
D	132m NE	Electricity Substation	1981	167286
D	132m NE	Electricity Substation	1986	167286
D	132m NE	Electricity Substation	1994	177180
J	297m NE	Electricity Substation	1981	170999
J	297m NE	Electricity Substation	1994	178589
J	297m NE	Electricity Substation	1972	170999
K	361m W	Electricity Substation	1994	168690
K	362m W	Electricity Substation	1987	168690
K	362m W	Electricity Substation	1981	168690
K	362m W	Electricity Substation	1981	168690
K	362m W	Electricity Substation	1986	168690
R	407m SW	Electricity Substation	1994	184605
R	409m SW	Electricity Substation	1985	184605

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	15

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 22 >**

ID	Location	Land Use	Date	Group ID
A	6m NW	Garage	1966	56569
A	6m NW	Garage	1950	54604
B	58m NW	Garage	1966	57590
B	58m NW	Garage	1950	57535
E	170m W	Garage	1966	58308
E	170m W	Garage	1950	56714
2	196m W	Garage	1950	52856
L	317m W	Garage	1950	55686
L	317m W	Garage	1966	55261
L	361m W	Garage	1950	59416
L	361m W	Garage	1966	57420
7	455m W	Garage	1950	52454
V	488m W	Garage	1951	57245
V	488m W	Garage	1951	57519
V	488m W	Garage	1961	57519

This data is sourced from Ordnance Survey® / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Waste exemptions

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	10

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 29 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Disposal by incineration
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Cleaning, washing, spraying or coating relevant waste
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Aerobic composting and associated prior treatment
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Using waste exemption	Both agricultural and non-agricultural waste	Incorporation of ash into soil

ID	Location	Site	Reference	Category	Sub-Category	Description
A	487m SW	Land Near Newlands Road Derbyshire	EPR/QF0635KT /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

Recent industrial land uses

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 33 >**

ID	Location	Company	Address	Activity	Category
1	107m NW	Electricity Sub Station	Derbyshire, DE55	Electrical Features	Infrastructure and Facilities
2	134m NE	Electricity Sub Station	Derbyshire, DE55	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	0

Current or recent tanks identified from the Ordnance Survey® NGD.

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 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.

4.5 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.

4.6 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.

4.7 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.

4.8 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.

4.9 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.

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

Records within 500m	0

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.

This data is sourced from Local Authority records.

4.11 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.

4.12 Licensed Discharges to controlled waters

Records within 500m	0

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

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

4.13 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.

4.14 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.

4.15 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.

4.16 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.

4.17 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.

4.18 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.

4.19 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.

4.20 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

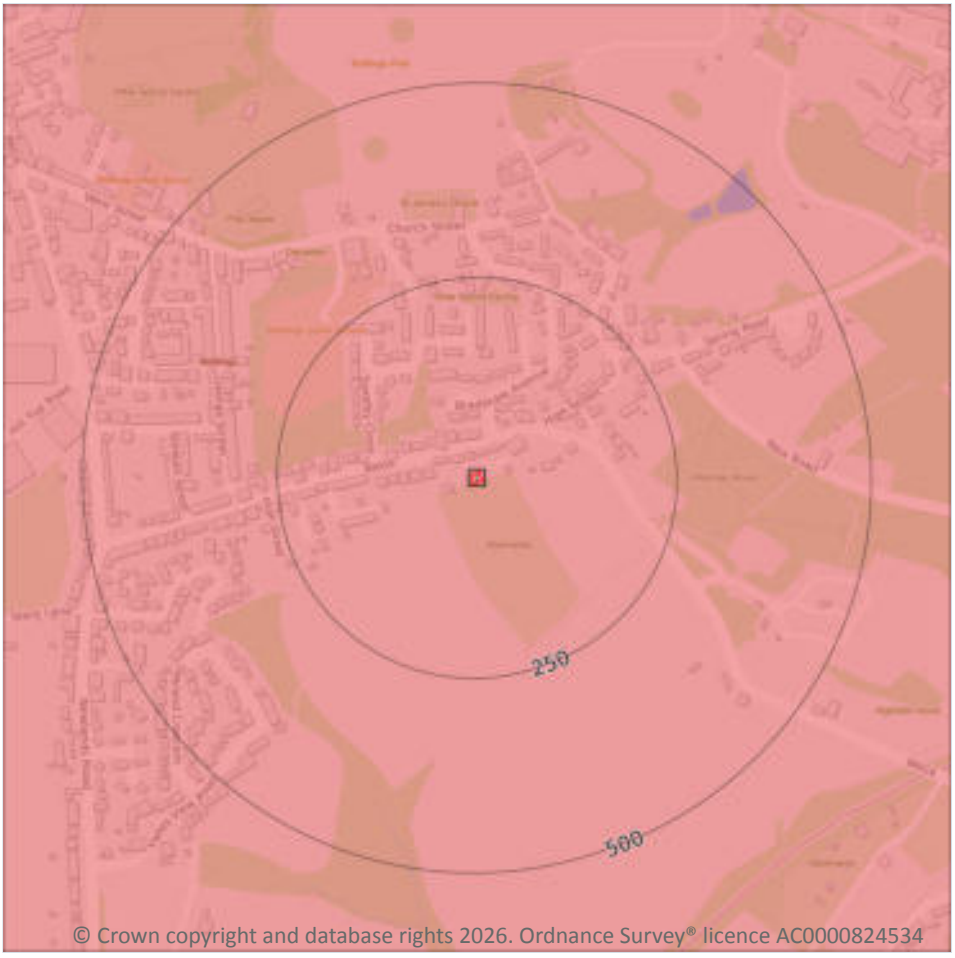
5.1 Superficial aquifer

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



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	1

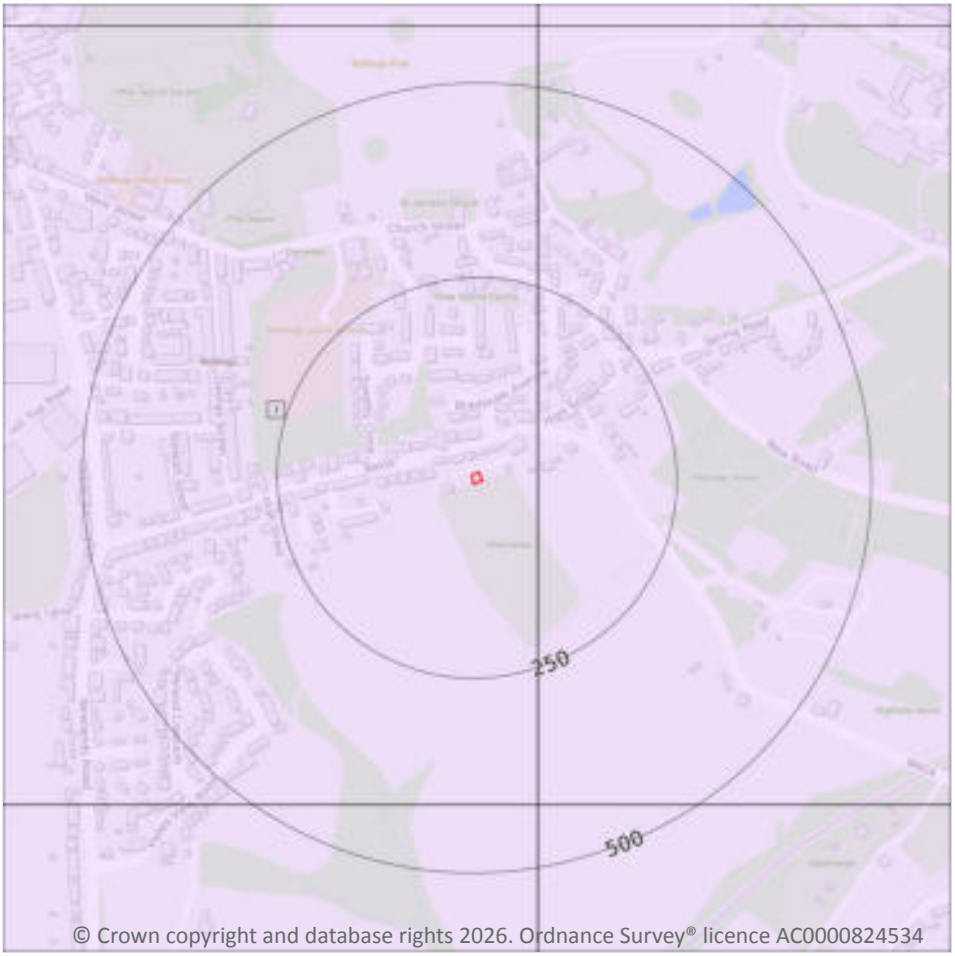
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 39 >**

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**

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

Groundwater vulnerability



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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 40 >**

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

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	0

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.

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.

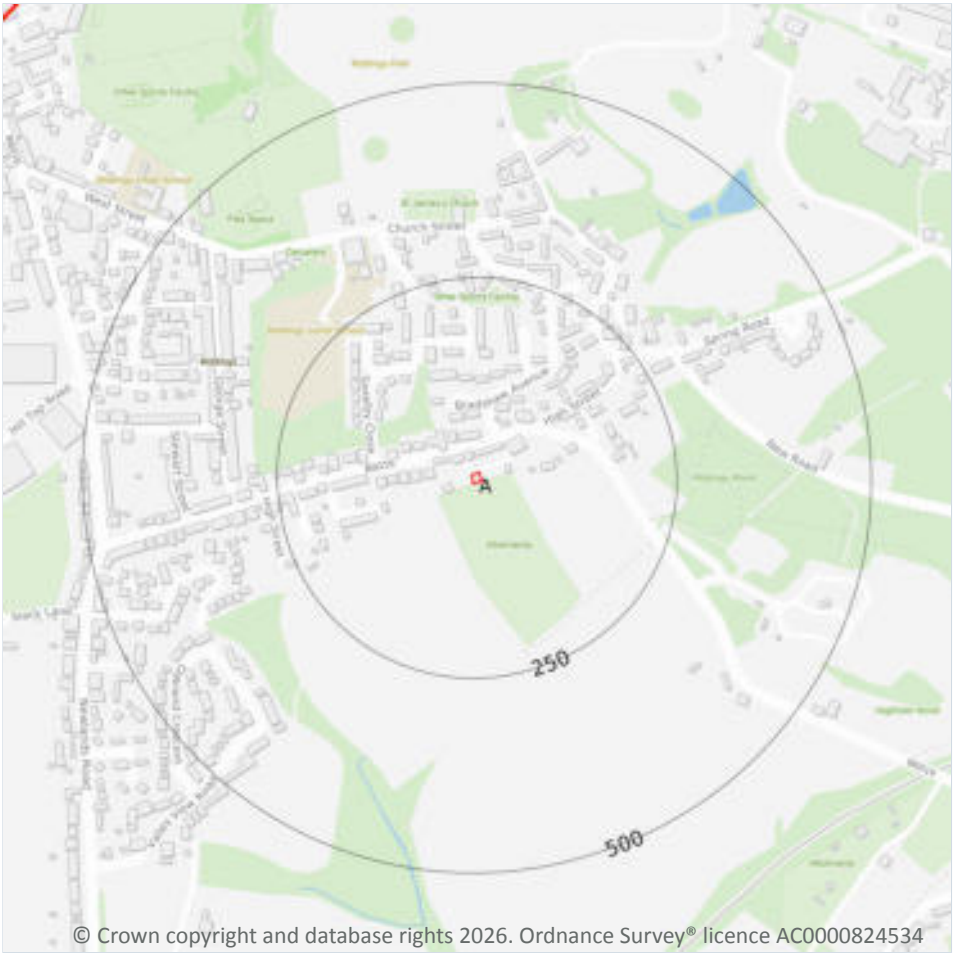
5.10 Source Protection Zones (confined aquifer)

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



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Site Outline

Search buffers in metres (m)

Water Network (OS NGD)

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 NGD)

Records within 250m	0

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

This data is sourced from the Ordnance Survey®.

6.2 Surface water features

Records within 250m	0

Covering rivers, streams and lakes (some overlap with OS NGD 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.

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**	**Erewash from Source to Nethergreen Brook**	**GB104028052740**	**Erewash River**	**Trent Lower and Erewash**

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
-	1113m E	River	Erewash from Source to Nethergreen Brook	GB104028052740 ↗	No longer applicable	Does not require assessment	Poor	2022

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**	**Lower Trent Erewash - Coal Measures**	**GB40402G303200** ↗	**Good**	**Good**	**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 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

7.5 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.

7.6 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)

Local Nature Reserves (LNR)

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	1

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.

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

ID	Location	Name	Data source
-	1821m N	Pennytown Ponds	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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.

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	2

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**	**Derby and Nottingham Green Belt**	**Amber Valley**
2	1115m E	Derby and Nottingham Green Belt	Ashfield

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

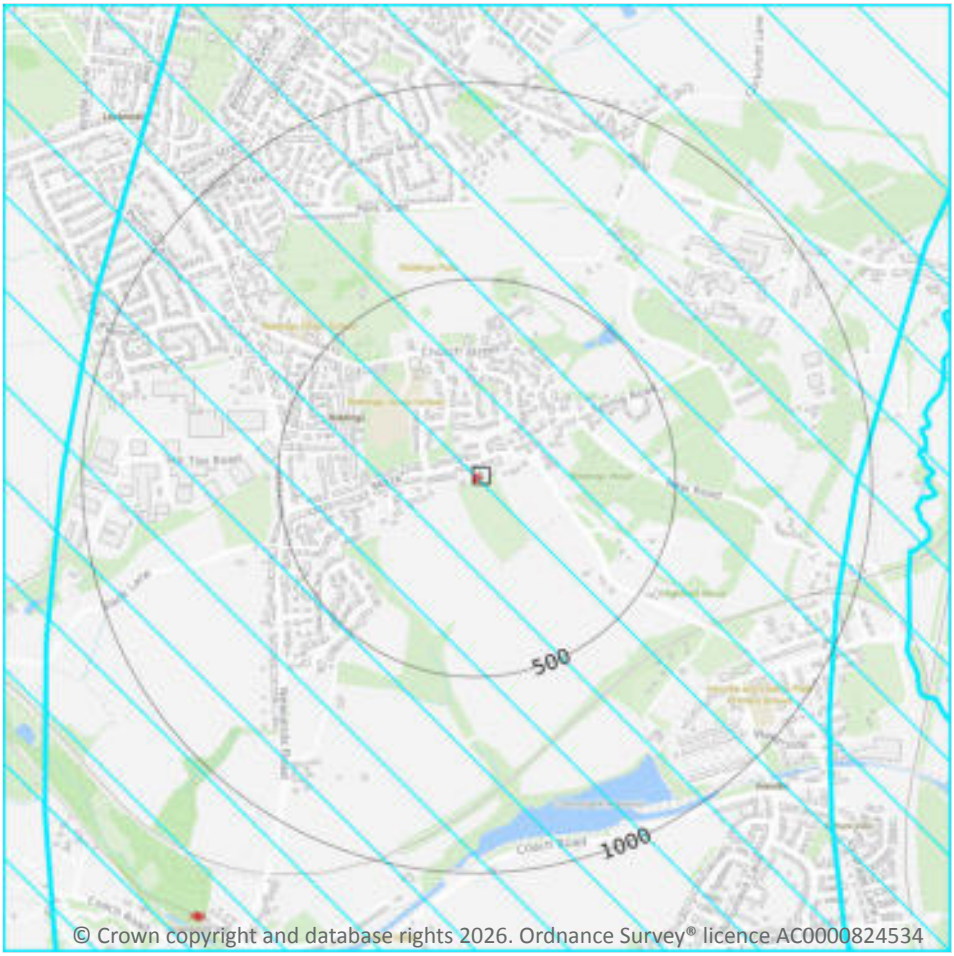
Records within 2000m	5

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
On site	**River Erewash from Gilt Brook to River Trent NVZ**	**Surface Water**	**316**	**Existing**
On site	**Attenborough NNR Eutrophic lake NVZ**	**Eutrophic Water**	**149**	**Existing**
778m NW	River Amber from Alfreton Brook to R Derwent NVZ	Surface Water	314	Existing
1163m E	River Erewash from Gilt Brook to River Trent NVZ	Surface Water	316	Existing
1163m E	Attenborough NNR Eutrophic lake NVZ	Eutrophic Water	149	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**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0300000500000&notes=&location=444196,348580%20(IRZ%20polygon%20centre)**

This data is sourced from Natural England.

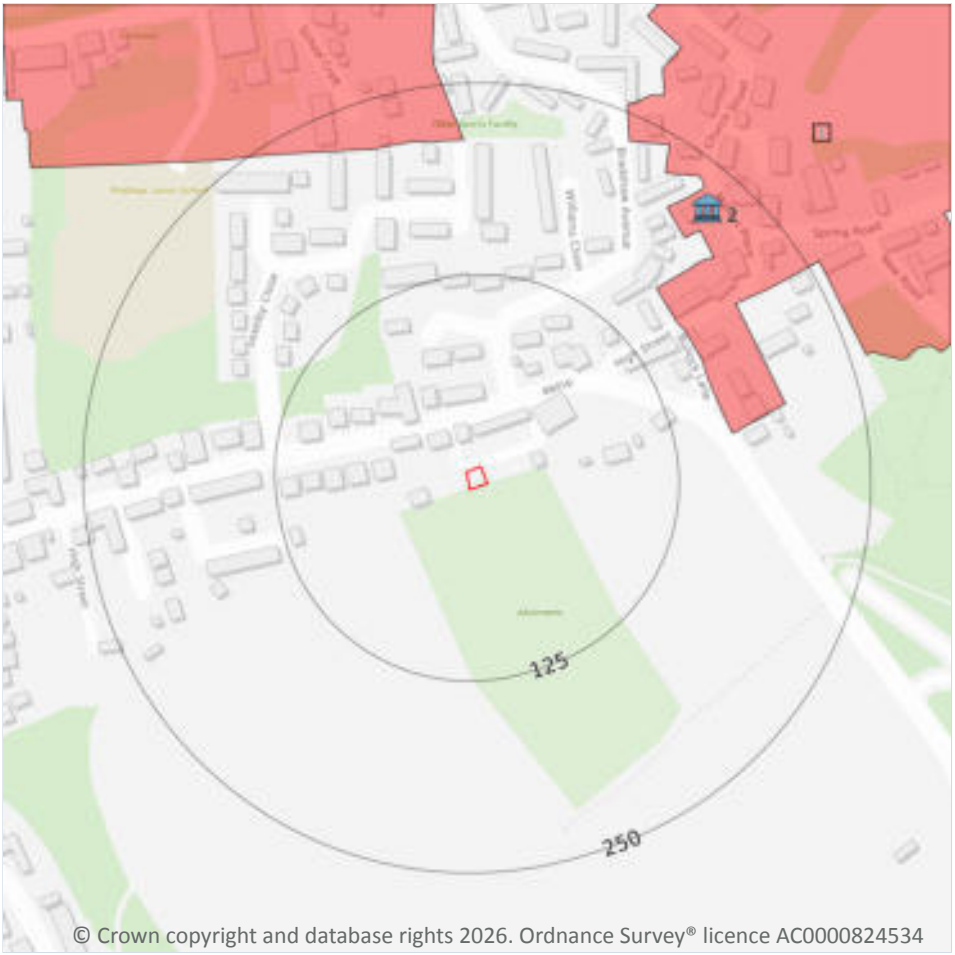
10.18 SSSI Units

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



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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
2	224m NE	The Old Vicarage	II	1109004	01/02/1982

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

11.5 Conservation Areas

Records within 250m	1

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.

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

ID	Location	Name	District	Date of designation
1	159m NE	Riddings	Amber Valley	04/02/1980

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	0

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.

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	6

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	75m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	111m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	114m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	165m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	215m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	229m E	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	1

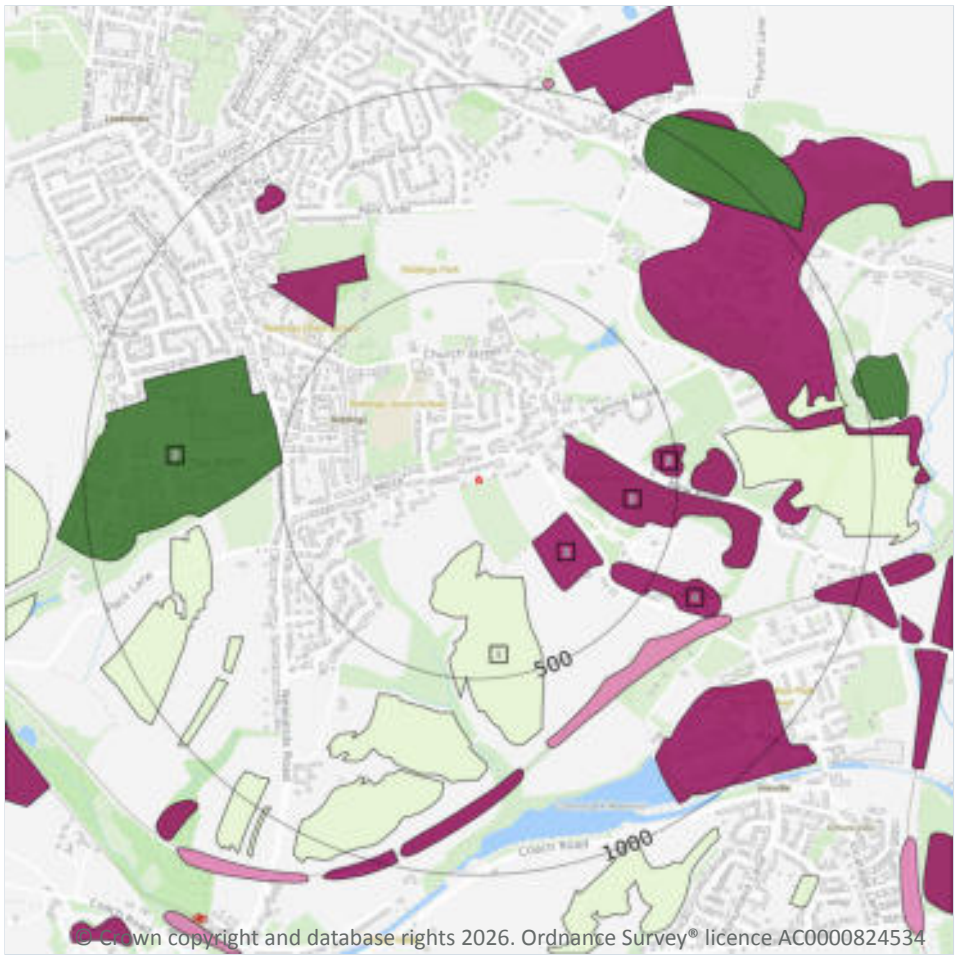
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

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**	**No coverage**	**SK45SW**

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	6

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	150m S	WMGR-ARTDP	Infilled Ground	Artificial deposit
2	201m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
3	212m E	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
4	397m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit

ID	Location	LEX Code	Description	Rock description
5	439m E	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
6	497m W	LSGR-ARTGR	Landscaped Ground (Undivided)	Artificially modified ground

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	329m SW	HEAD-XCZ	Head-Clay And Silt	Clay and silt

This data is sourced from the British Geological Survey.

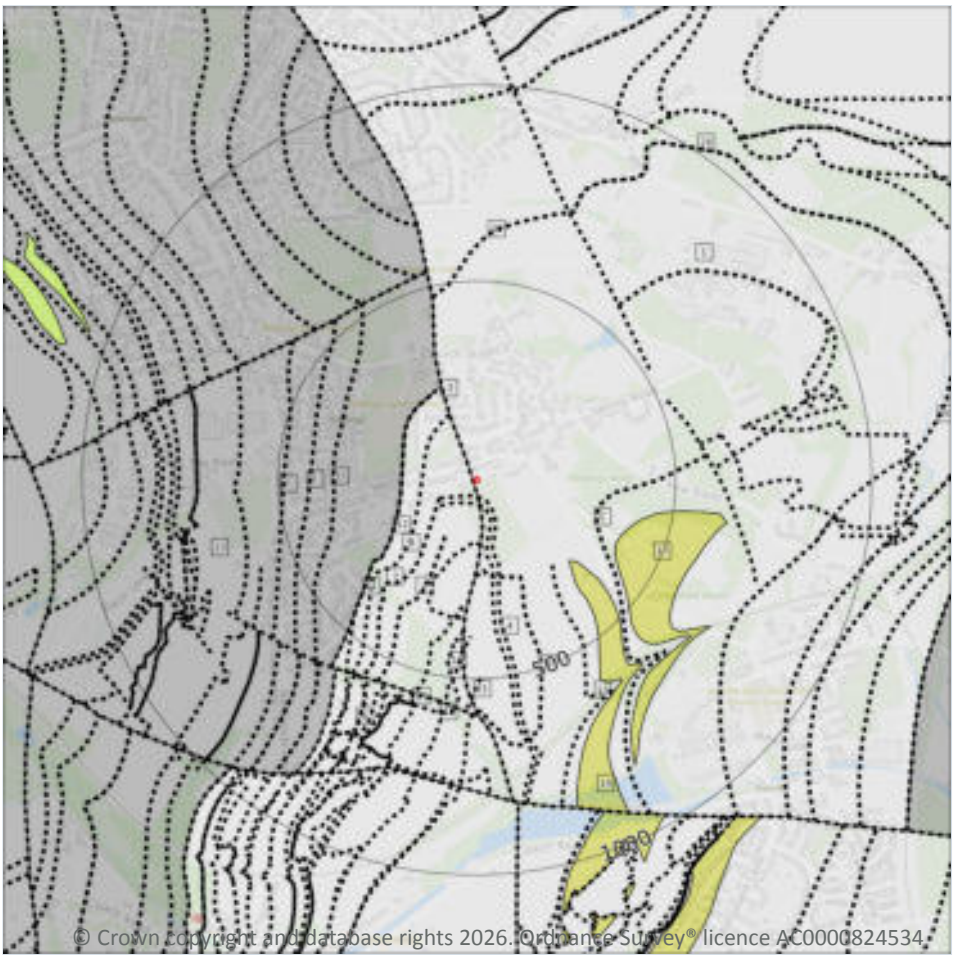
14.4 Landslip (10k)

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



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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	5

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**	**Westphalian**
2	4m W	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian

ID	Location	LEX Code	Description	Rock age
10	185m W	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
14	305m SE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
17	381m SE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**28**

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	4m W	FAULT	Fault, inferred, displacement unknown
4	34m S	ROCK	Coal seam, inferred
5	53m S	ROCK	Coal seam, inferred
6	99m SW	ROCK	Coal seam, inferred
7	99m SW	ROCK	Coal seam, inferred
8	132m W	ROCK	Coal seam, inferred
9	150m S	ROCK	Coal seam, observed
A	151m SW	ROCK	Coal seam, inferred
A	151m SW	ROCK	Coal seam, inferred
11	185m W	FOSSIL_HORIZON	Marine band
12	185m W	FOSSIL_HORIZON	Marine band
B	225m S	ROCK	Coal seam, observed
B	225m S	ROCK	Coal seam, observed
13	283m SE	ROCK	Coal seam, inferred
C	310m E	ROCK	Coal seam, inferred
C	310m E	ROCK	Coal seam, inferred

ID	Location	Category	Description
15	317m S	ROCK	Coal seam, inferred
D	358m W	ROCK	Coal seam, inferred
D	358m W	ROCK	Coal seam, inferred
16	377m S	ROCK	Coal seam, observed
18	392m S	ROCK	Coal seam, inferred
E	416m W	ROCK	Coal seam, inferred
E	416m W	ROCK	Coal seam, inferred
19	473m N	ROCK	Coal seam, inferred
20	473m N	ROCK	Coal seam, inferred
F	484m W	ROCK	Coal seam, inferred
F	484m W	ROCK	Coal seam, inferred
21	498m S	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

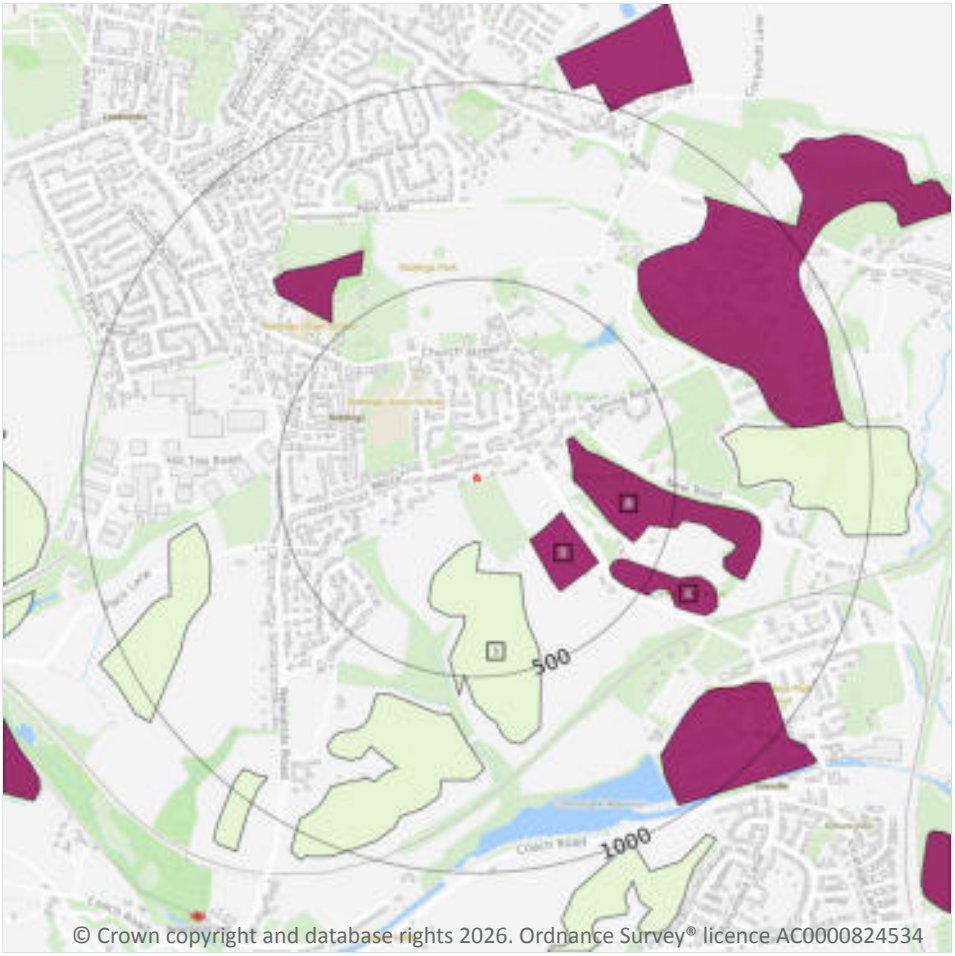
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

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**	**EW125_derby_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	4

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	155m S	WMGR-ARTDP	Infilled Ground	Artificial deposit
2	201m SE	MGR-ARTDP	Made Ground	Artificial deposit
3	239m E	MGR-ARTDP	Made Ground	Artificial deposit
4	400m SE	MGR-ARTDP	Made Ground	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.

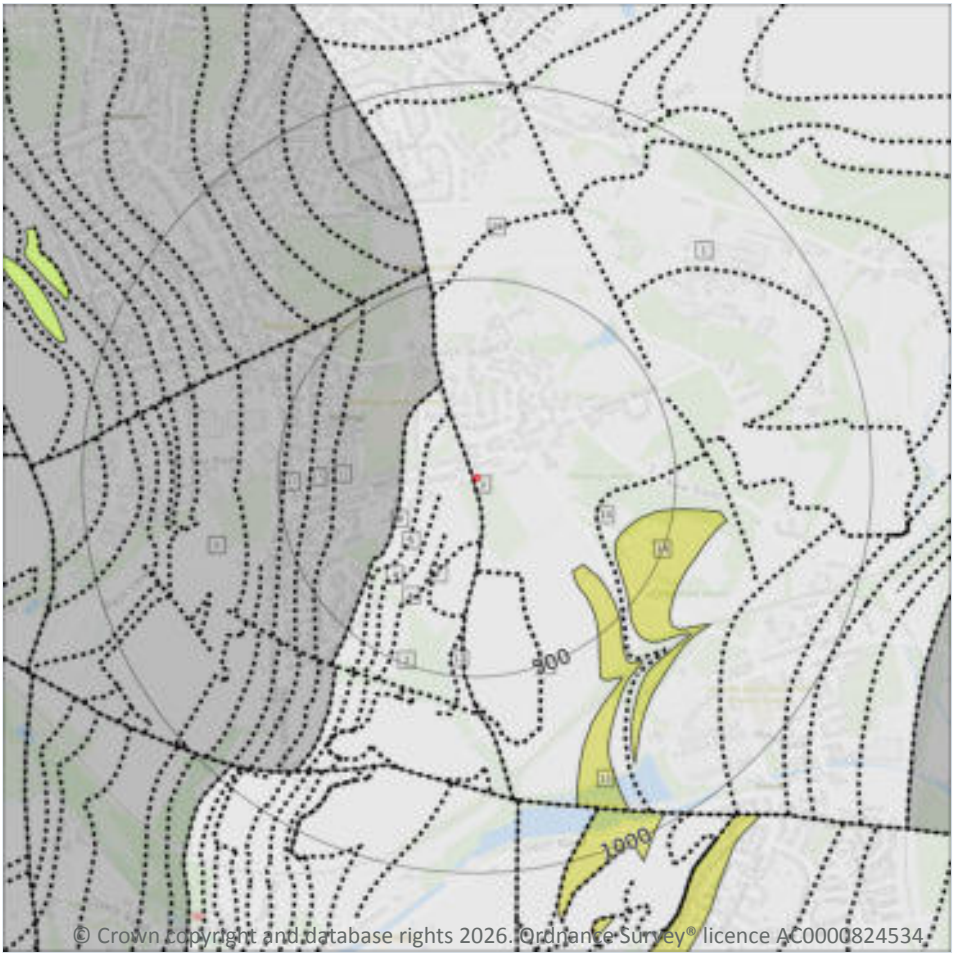
15.7 Landslip permeability (50k)

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



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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	5

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**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone**	**Westphalian**
2	4m W	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian

ID	Location	LEX Code	Description	Rock age
8	185m W	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
11	334m SE	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
14	381m SE	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	**1**

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**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**14**

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	4m W	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
4	99m SW	ROCK	Coal seam, inferred
5	132m W	ROCK	Coal seam, inferred
6	151m SW	ROCK	Coal seam, inferred
7	155m S	ROCK	Coal seam, observed
9	185m W	FOSSIL_HORIZON	Marine band
A	231m S	ROCK	Coal seam, observed
A	231m S	ROCK	Coal seam, observed

ID	Location	Category	Description
10	310m E	ROCK	Coal seam, inferred
12	358m W	ROCK	Coal seam, inferred
13	373m S	ROCK	Coal seam, observed
15	416m W	ROCK	Coal seam, inferred
16	473m N	ROCK	Coal seam, inferred
17	484m W	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

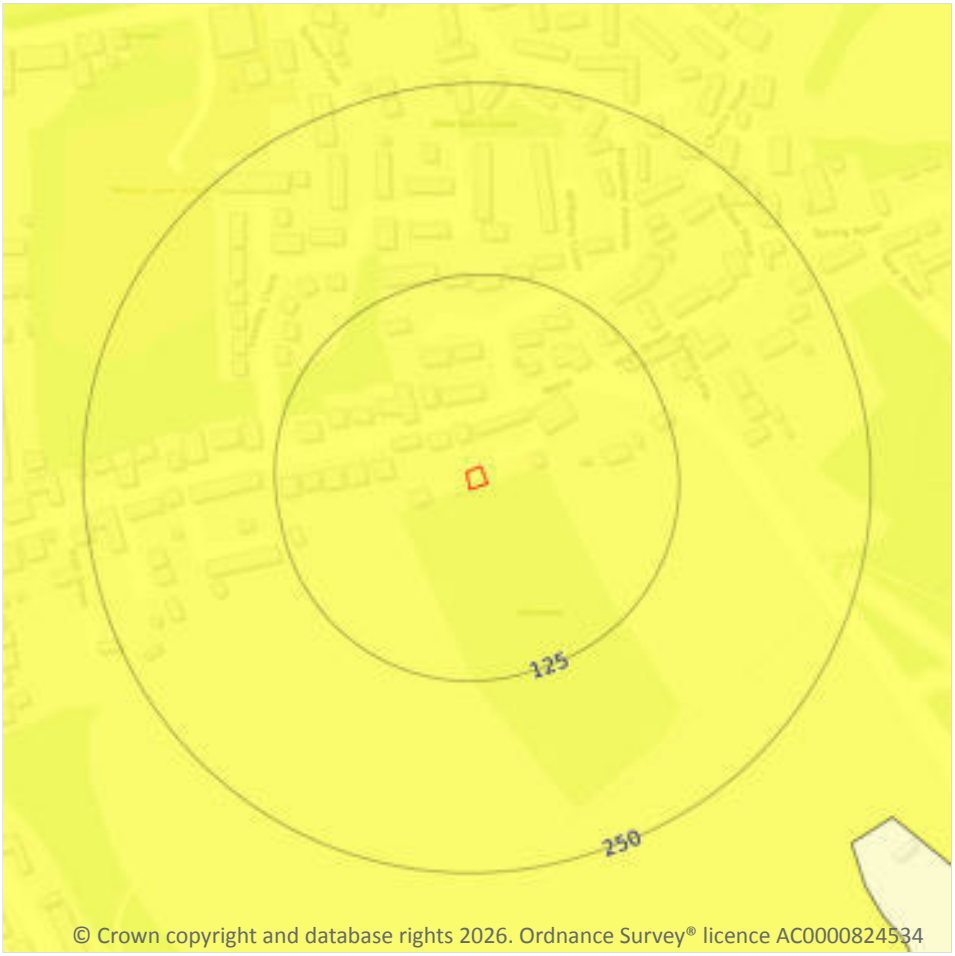
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

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

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	224m NE	443020 352630	RIDDINGS VILLAGE 1	20.0	N	224010 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



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Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	1

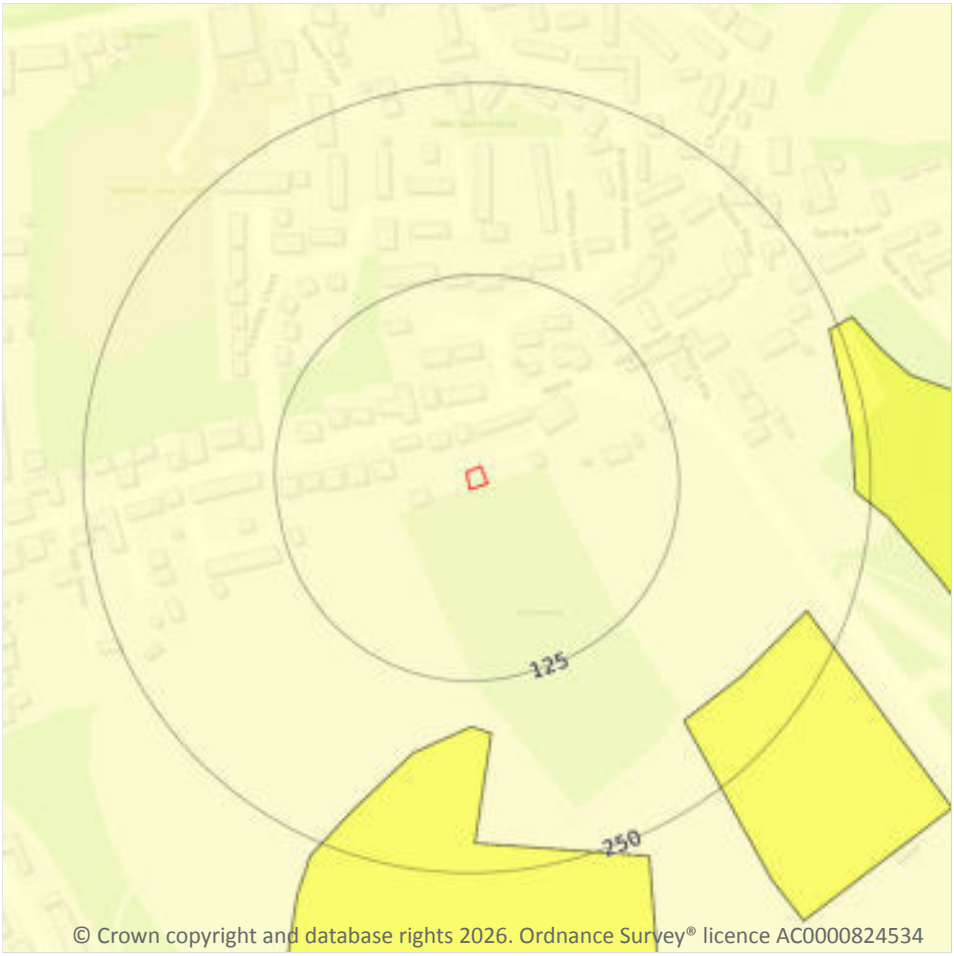
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

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

Location	Hazard rating	Details
On site	**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

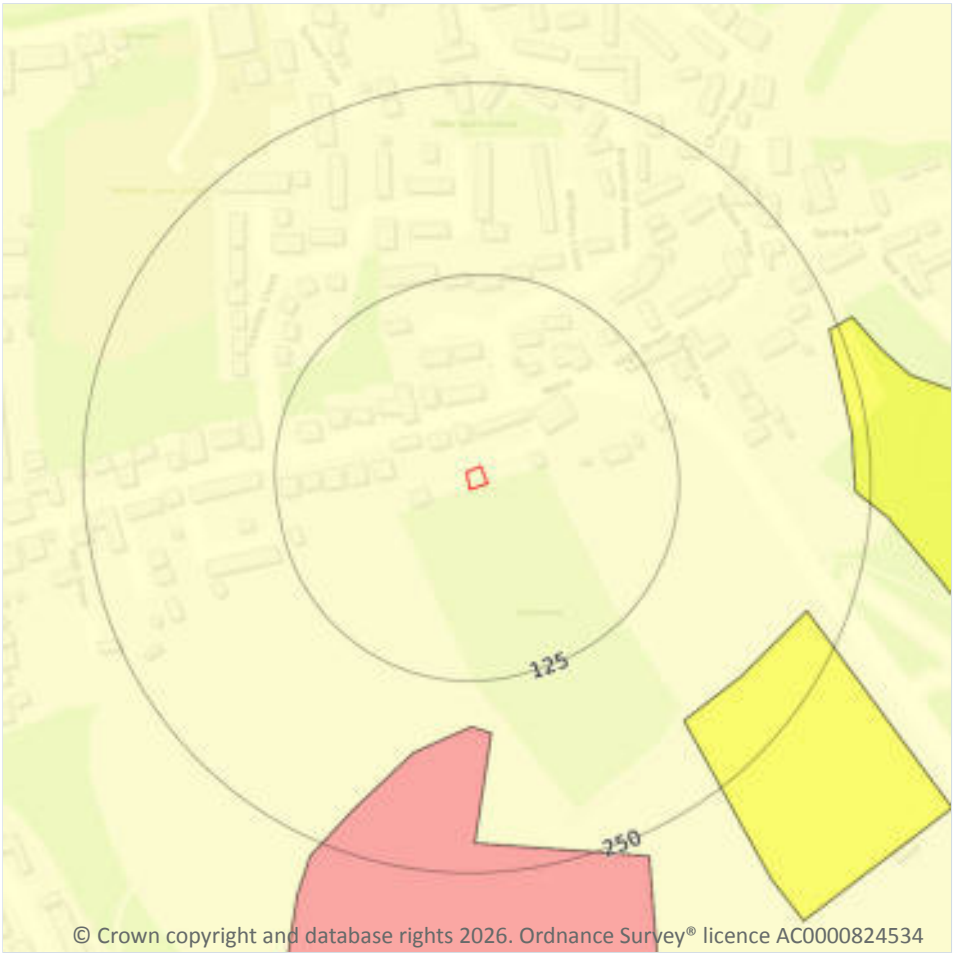
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

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

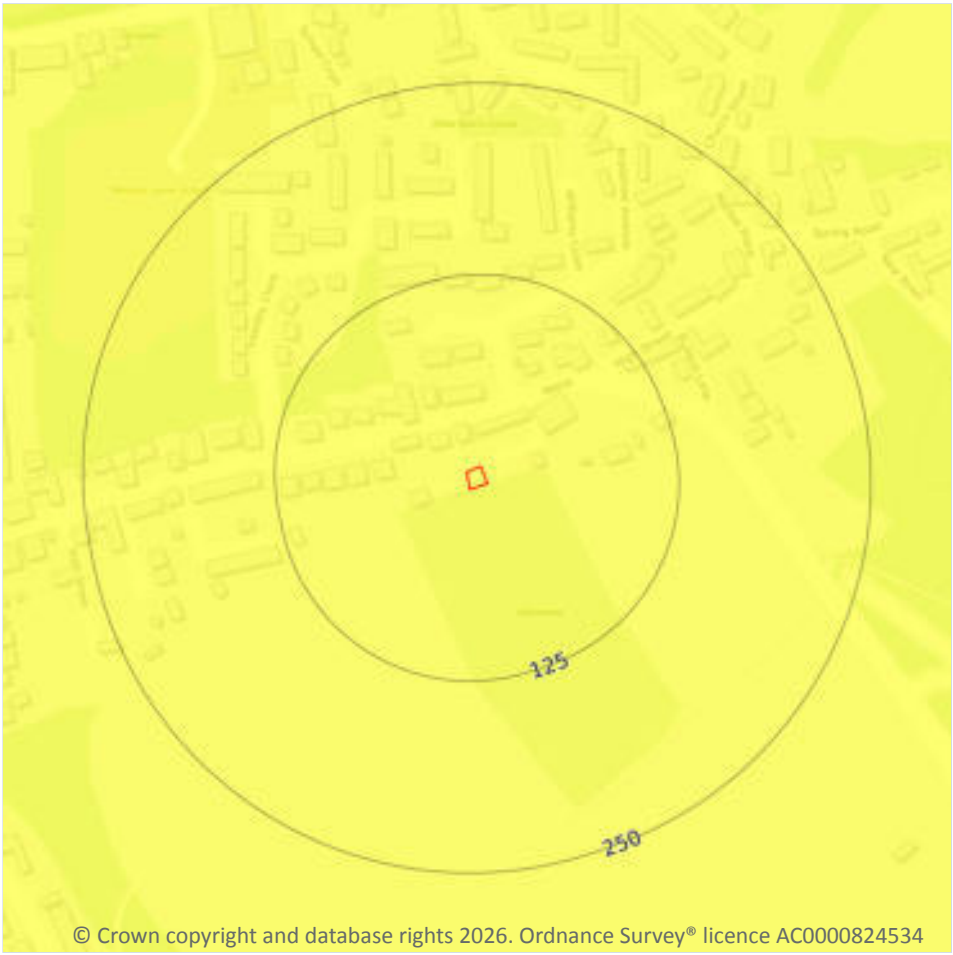
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

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



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Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

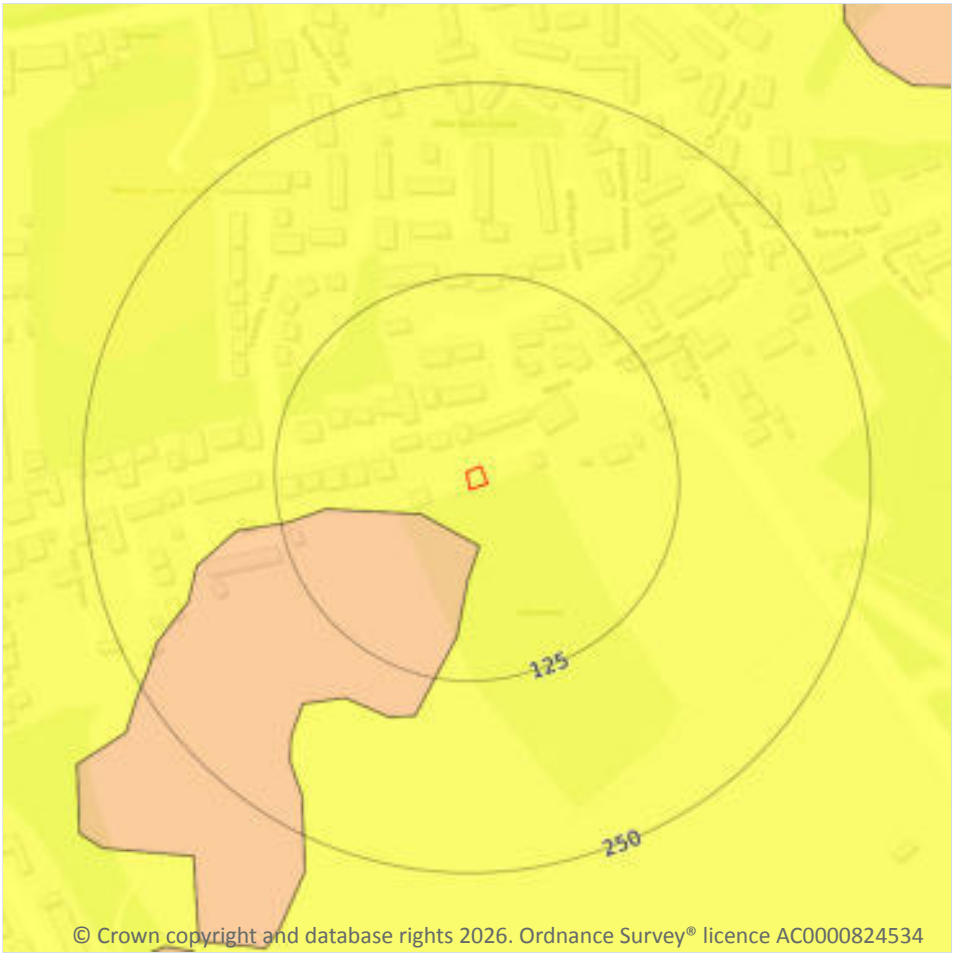
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

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	2

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.**

Location	Hazard rating	Details
29m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

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

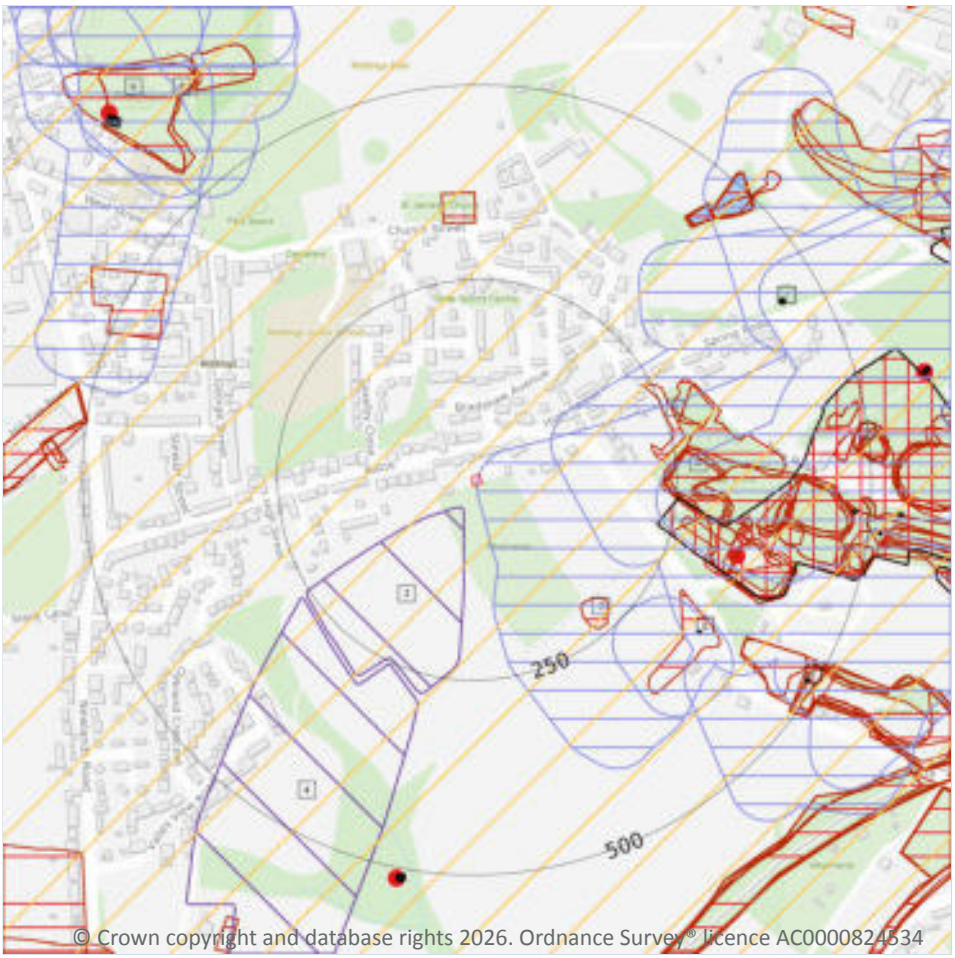
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 88 >**

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



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	1

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 90 >**

ID	Location	Details	Description
A	340m E	Name: Ironville Gasfield Address: Riddings Wood, Riddings, RIPLEY, Derbyshire Commodity: Natural Gas Status: Ceased	Type: Wellsite, or other surface plant, extracting liquid or gas. Working may be for brine, oil, and various gas commodities. 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	**10**

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.

Features are displayed on the Mining and ground workings map on **page 90 >**

ID	Location	Land Use	Year of mapping	Mapping scale
3	201m SE	Unspecified Heap	1880	1:10560
B	223m E	Refuse Heap	1967	1:10560
A	231m E	Collieries	1880	1:10560
D	232m E	Unspecified Heap	1921	1:10560
A	233m E	Unspecified Heap	1938	1:10560
A	233m E	Unspecified Heap	1913	1:10560
D	236m E	Unspecified Heap	1898	1:10560
D	236m E	Unspecified Ground Workings	1950	1:10560
D	240m E	Unspecified Heaps	1978	1:10000
D	240m E	Unspecified Heaps	1988	1:10000

This is data is sourced from Ordnance Survey®/Groundsure.

18.3 Underground workings

Records within 1000m	80

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 90 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	231m E	Collieries	1880	1:10560
E	337m SE	Unspecified Old Shaft	1880	1:10560
I	445m NE	Old Coal Shaft	1950	1:10560
I	446m NE	Old Coal Shaft	1921	1:10560
I	446m NE	Old Coal Shaft	1938	1:10560
I	446m NE	Old Coal Shaft	1913	1:10560
I	448m NE	Unspecified Old Shaft	1880	1:10560
A	477m E	Air Shaft	1880	1:10560
F	487m SE	Unspecified Old Shaft	1880	1:10560
K	507m S	Unspecified Disused Shaft	1967	1:10560
K	507m S	Unspecified Disused Shaft	1978	1:10000
K	510m S	Old Coal Shaft	1913	1:10560
K	510m S	Old Coal Shaft	1921	1:10560
K	510m S	Unspecified Old Shaft	1938	1:10560
K	510m S	Unspecified Old Shaft	1898	1:10560
K	510m S	Unspecified Old Shaft	1880	1:10560
K	511m S	Old Coal Shaft	1950	1:10560
K	511m S	Unspecified Disused Shaft	1988	1:10000
A	513m E	Unspecified Shafts	1880	1:10560
A	537m E	Unspecified Shafts	1880	1:10560
O	585m E	Ironstone Old Shaft	1950	1:10560
O	585m E	Ironstone Old Shaft	1921	1:10560
O	588m E	Unspecified Old Shaft	1898	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
O	588m E	Unspecified Old Shaft	1880	1:10560
O	588m E	Old Ironstone Shaft	1938	1:10560
O	588m E	Old Ironstone Shaft	1913	1:10560
L	638m NW	Unspecified Old Shafts	1898	1:10560
L	642m NW	Unspecified Old Shafts	1880	1:10560
L	643m NW	Coal and Ironstone Shafts	1921	1:10560
L	644m NW	Old Coal and Ironstone Shafts	1938	1:10560
L	644m NW	Old Coal and Ironstone Shafts	1913	1:10560
12	647m NE	Collieries	1880	1:10560
L	649m NW	Coal and Ironstone Shafts	1921	1:10560
-	652m E	Old Coal Shafts	1950	1:10560
-	655m E	Old Coal Shafts	1938	1:10560
-	655m E	Old Coal Shafts	1913	1:10560
-	655m E	Old Coal Shafts	1921	1:10560
-	655m E	Unspecified Old Shafts	1898	1:10560
-	655m E	Unspecified Old Shafts	1880	1:10560
-	673m E	Old Coal Shafts	1950	1:10560
-	674m E	Old Coal Shafts	1938	1:10560
-	674m E	Old Coal Shafts	1913	1:10560
-	674m E	Old Coal Shafts	1921	1:10560
-	674m E	Unspecified Old Shafts	1898	1:10560
-	674m E	Unspecified Old Shafts	1880	1:10560
-	703m E	Unspecified Disused Shafts	1967	1:10560
-	703m E	Ironstone Old Shafts	1950	1:10560
-	703m E	Old Ironstone Shafts	1913	1:10560
-	704m E	Unspecified Old Shafts	1938	1:10560
-	704m E	Ironstone Old Shafts	1921	1:10560
-	705m E	Unspecified Old Shafts	1880	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	731m NE	Old Coal Shaft	1950	1:10560
-	731m NE	Unspecified Old Shafts	1880	1:10560
-	732m NE	Old Coal Shaft	1913	1:10560
-	732m NE	Old Coal Shaft	1938	1:10560
-	732m NE	Unspecified Old Shaft	1898	1:10560
-	732m NE	Unspecified Old Shaft	1921	1:10560
-	735m NE	Unspecified Old Shafts	1880	1:10560
-	736m NE	Unspecified Old Shaft	1988	1:10000
-	739m E	Unspecified Disused Shafts	1967	1:10560
-	739m E	Ironstone Old Shafts	1950	1:10560
-	740m E	Unspecified Old Shafts	1938	1:10560
-	740m E	Unspecified Old Shafts	1898	1:10560
-	740m E	Unspecified Old Shafts	1880	1:10560
-	740m E	Old Ironstone Shafts	1913	1:10560
-	740m E	Ironstone Old Shafts	1921	1:10560
-	759m NE	Unspecified Old Shaft	1898	1:10560
-	856m NW	Coal and Ironstone Shaft	1913	1:10560
-	856m NW	Unspecified Old Shaft	1938	1:10560
-	856m NW	Coal and Ironstone Shaft	1921	1:10560
-	856m E	Unspecified Old Shafts	1880	1:10560
-	858m NW	Unspecified Old Shaft	1880	1:10560
-	862m E	Unspecified Old Shafts	1880	1:10560
-	866m NE	Unspecified Shaft	1880	1:10560
-	867m NW	Unspecified Old Shaft	1898	1:10560
-	874m NW	Unspecified Shafts	1898	1:10560
-	888m NE	Unspecified Old Shaft	1880	1:10560
-	906m NW	Unspecified Shaft	1880	1:10560
-	906m NW	Unspecified Shafts	1898	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	938m NE	Air Shaft	1880	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	2

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 90 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
2	32m SW	Golden Valley	Fireclay, clay	Surface mineral working	Refused	30/6/48
4	253m SW	Golden Valley	Fireclay, clay	Surface mineral working	Valid	30/6/48

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	1

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).

Features are displayed on the Mining and ground workings map on **page 90 >**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Iron Ore (Bedded)**	**B**	**Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**

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	**6**

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.

Features are displayed on the Mining and ground workings map on **page 90 >**

ID	Location	Mineral type	Mineral
A	**On site**	**Metals**	**Ironstone**
A	97m E	Metals	Ironstone
C	224m E	Metals	Ironstone
E	249m SE	Metals	Ironstone
6	433m W	Metals	Ironstone
8	479m NW	Metals	Ironstone

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

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	0

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.

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 101 >**

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	1

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 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 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. Please note that the Crossrail 2 project has been temporarily suspended. It is possible funding will be received in the future, but there is no guarantee of this.

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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