PHASE 1 DESK STUDY REPORT

Land off Wellands Lane, Scholes, Cleckheaton, BD19 6EY

Report: 25118-DS

Date: September 2025

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DOCUMENT VERIFICATION SHEET

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Signature:		

SUMMARY

Grid Ref: 416907(E), 425855(N) **Elevation:** 155 mAOD **Site Area:** 0.13 ha

Development proposals:	Construction of two residential houses.
Past site development:	Open fields and concrete base.
Made Ground:	None recorded but anticipated around former base.
Natural Soils:	Residual soils weathered down from parent bedrock.
Bedrock:	Undifferentiated Pennine Lower Coal Measures Formation.
Groundwater:	Groundwater likely confined within bedrock sequence.
Shallow mining:	Low potential risk of unrecorded shallow mine workings.
Environmental Assessment:	Intrusive Ground Investigation required to refine risks.
Ground gases:	Gas monitoring to be undertaking alongside water monitoring.
Foundations:	Intrusive investigation recommended to confirm ground conditions and identify suitable founding stratum.
Surface Water Drainage:	Attenuation and off-site drainage recommended
Geotechnical Considerations:	Intrusive ground investigation recommended to confirm ground conditions for geotechnical design purposes.
Further Investigation:	Phase 2 Ground Investigation recommended.

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1. INTRODUCTION

1.1. Project Scope

On the instruction of Barnes Architecture Services, on behalf of Shaun Rogerson, a Phase 1 Desk Study was carried out by Abbeydale Geoscience Limited on a site off Wellands Lane in Scholes, near Cleckheaton. See Figure 1.



FIGURE 1 - LOCATION PLAN

When writing this report the proposed development was to construct two residential houses with private gardens at, or close to, existing ground levels. If

there are changes to these proposals then some modification to the comments and recommendations given may be required. The proposed site layout is shown on the site plan in Appendix A.

1.2. Objectives

This report looks into the anticipated ground conditions based on the geological and historical setting of the site. From this it then considers the potential for any geo-environmental or geotechnical risks that may be present, and how these might impact the proposed development, or future receptors.

Where a potential risk is identified, the report looks at possible links between the source and future site users. Based on this, the report gives a preliminary risk assessment and recommendation(s) for further investigation, to better understand and quantify the potential risks.

This includes both geo-environmental and geotechnical risks.

1.3. Limitations

The comments and recommendations in this Phase 1 Desk Study report are based on the findings of a review of available information. However, it's important to note that other conditions on the site may not have been recorded and therefore cannot be considered in this report. The report cannot be held responsible for unrecorded information.

Should any third party come into possession of this report without the express written authorisation of Abbeydale Geoscience Limited and our client, they rely on it at their own risk and we owe them no duty of care or skill.

2. THE SITE

The site is situated on the south-east side of Scholes, centred on National Grid Reference 416907, 425855, with a site area of around 0.13 ha.

As part of the Phase 1 Desk Study assessment a site walkover was undertaken on 14th August 2025, to determine the presence of any visually identifiable features that may pose a potential risk to future receptors.

The site located opposite No.4 Wellands Lane and can be accessed directly from Wellands Lane along the western boundary. A gap in the boundary wall/fence line appears to provide a potential entrance point, with the site comprising of a roughly rectangular parcel of land that is enclosed by boundary fencing and low walls. The majority of the site is grass-covered.

Within the northern section of the site, there is a rectangular area of concrete hardstanding, which appears to be the remains of a former building base or yard. Adjacent to this hardstanding is a small outbuilding with a pitched roof, likely of lightweight construction such as timber or sheeted material. The northern boundary is defined in part by tree cover and vegetation.

The central portion of the site is predominantly open grassland with no built structures present, although the ground surface appears slightly uneven, potentially as a result of past disturbance or clearance. Towards the southern part of the site, a small pile of debris or rubble is visible, suggesting remnants of former activity or structures

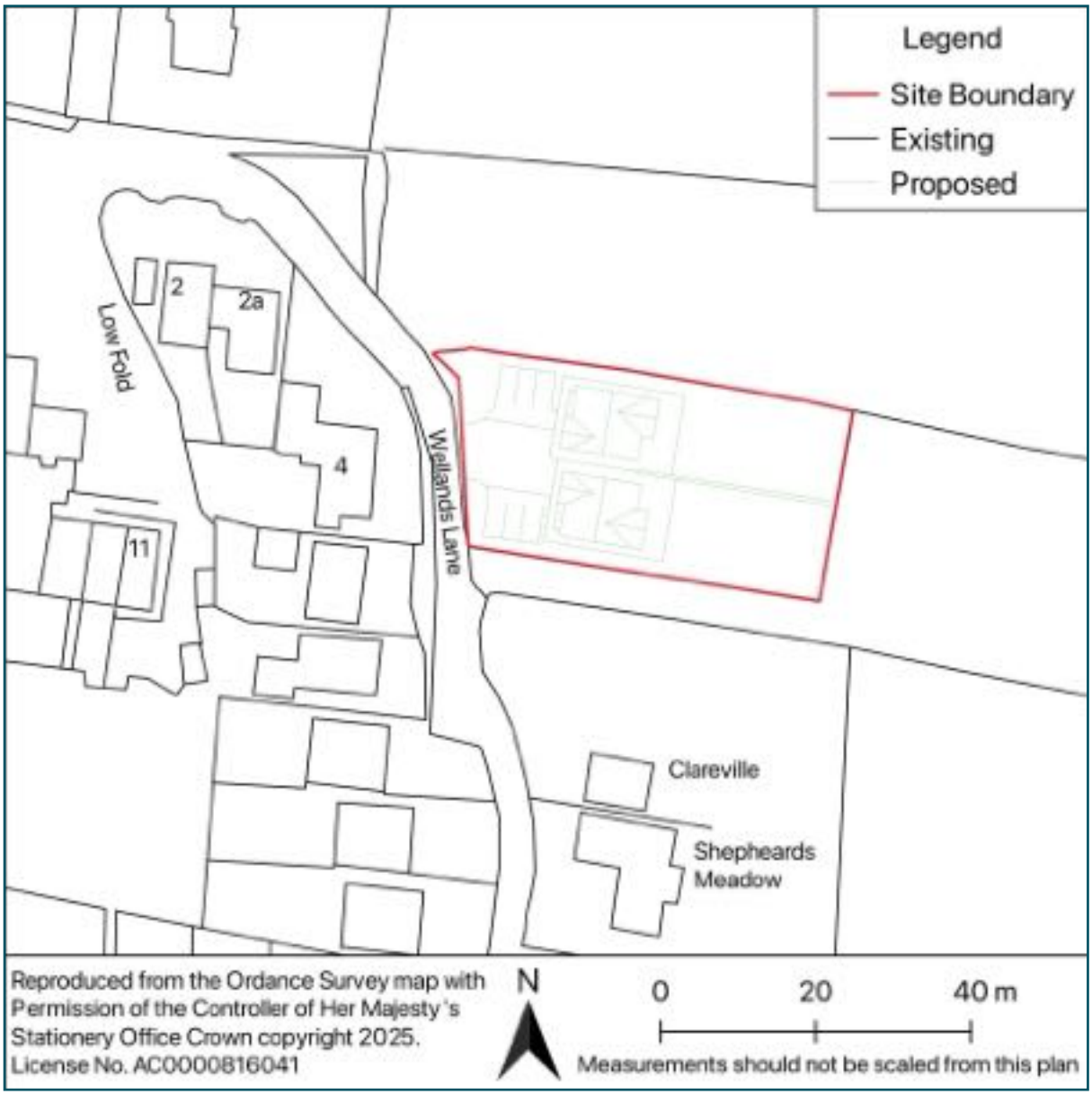


FIGURE 2 - SITE PLAN

The site is relatively level across the majority of its area, with a gentle fall noted towards the south and east. No visual or olfactory signs of potential contamination at the surface, distressed vegetation or any potentially contaminative sources were noted on the site, externally to any buildings.

The site fronts directly onto Wellands Lane along its western boundary, while to the east and north it is bordered by open fields and mature vegetation, and to the south by neighbouring residential properties and an adjoining track.

3. HISTORY

The historic Ordnance Survey (OS) maps of the site and surrounding area have been obtained from Groundsure, dated 8th August 2025; included as Appendix B. All measurements stated are approximate distances from the site boundaries to the recorded features. A summary of the findings of the historical maps is tabulated below.

Date(s)	On-Site Features	Surrounding Area
1854	Undeveloped Land	Largely undeveloped with some houses west of the site. Sandstone quarry is noted approximately 400m south of the site.
1892	The site remains unchanged.	Scholes Pit is noted 400m north-west of the site, Brick work at 400m south of the site, Cross land pit is noted approximately 500m of the site. Labels of several Mills are noted within the 500m of the site.
1893	A small building is shown in the north western corner.	No significant changes.
1905	The building is no longer shown and there are no other developments on site.	Urbanisation had occurred in the south-west of the site predominantly residential house along with new roads. A label of Colliery is noted approximately 500m east of the site.
1956	The site remains unchanged.	More residential development occurred to the north-east of the site along with new roads.
1969	The site remains unchanged.	Residential development intensified in north-east of the site.
2025	The site remains unchanged.	Surrounding area remains unchanged.

TABLE 1 - HISTORICAL MAP SUMMARY

4. GEOLOGY

The geological survey maps of the area, 1:10,000 scale sheet SE12NE, 1:50,000 scale BGS Sheet 77 (Huddersfield) and Yorkshire County Series Sheet 231NE have been examined, along with the memoir of the area. The site is shown to be underlain by undifferentiated strata (likely mudstone and siltstone with subordinate bands of sandstone) of the Pennine Lower Coal Measures Formation. Locally the strata are dipping to the west from an assessment of outcrop patterns and dips indicators on the geological maps.

The nearest geological fault is conjectured through the north-eastern boundary of the site, trending north-west to south-east, with strata downthrown to the south-west. It is noted that the conjectured fault location on the County Series geological map is further to the south-west than the position shown on geological sheet SE12NE, with the County Series map conjecturing the fault to split the site in half.

No superficial deposits are recorded across the site; natural soils would therefore be anticipated in the form of residual soils, weathered down from the parent bedrock.

Geological maps do not record any artificial made ground deposits across the site. However, made ground to superficial depths would be anticipated from any past developments of the site.

5. HYDROGEOLOGY AND HYDROLOGY

Information on the hydrogeology and hydrology of the site has been obtained as part of an environmental search report from Groundsure, dated 8th August 2025, to provide information on the likely groundwater and hydrological regime at the site and in the locality. The Groundsure report is included as Appendix D.

5.1. Hydrogeology

The groundwater regime of the site is currently unknown. Groundwater monitoring is recommended for foundation design purposes.

The Environment Agency (EA) classify the solid geology as a Secondary A aquifer (previously classified as a minor aquifer); defined as permeable layers that are capable of supporting water supplies at a local rather than strategic scale. In some cases these also form an important source of base flow to rivers.

The bedrock is considered to have a medium vulnerability to leachates.

No potable drinking water abstractions or groundwater abstraction licenses have been highlighted within 250m of the site and the site is not recorded to be within a groundwater Source Protection Zone (SPZ).

5.2. Hydrology

An unnamed surface watercourse is present 205m south of the site at its closest point.

No licensed surface water abstractions have been identified within 250m of the site by the Groundsure Enviro Insight report.

5.3. Flood Risk

The Enviro Insight report includes information obtained from the Environment Agency regarding the potential for flooding across the area. The site is not shown to lie within an area deemed to be at risk from flooding from rivers and seas, and is designated as Flood Zone 1.

No areas designated as Flood Zone 2 or Flood Zone 3a are recorded within 50m of the site and the site is not recorded to have been affected by a recorded historical flood event. The Groundsure report has not identified any flood storage areas within 250m of the site.

The risk of flooding from rivers or seas is therefore deemed to be **very low** and no further flood risk assessment is deemed necessary.

The risks from both surface water flooding and groundwater flooding at the site are classified as **negligible** in the appended Groundsure report.

6. MINING RISK ASSESSMENT & QUARRYING

6.1. Sources of Information

The presence of rock and mineral seams, including coal, which may have been mined or quarried in the area has been determined by the published geological maps and memoirs of the area, and the appended Coal Authority Consultants report included in Appendix C.

6.2. Shallow Mine Workings

The site is located within a Coal Mining Development High Risk Area and lies in a zone of probable unrecorded shallow coal workings. Published geological maps indicate that the Lousey Coal seam, with a thickness of 0.4m to 0.8 m, outcrops approximately 10 m south-east of the site and dips to the south-west. The geological memoir notes that the Lousey Coal *"seems to have been worked a little in the past"* at Primrose Hill in Scholes. Had this seam being worked it is possible that there will only be thin rock cover above any associated unrecorded shallow mine workings, and that any collapse of the workings could potentially propagate to the surface.

The associated risk of potential unrecorded shallow mine workings affecting the site is therefore considered to be **high** and further investigation is recommended to confirm the depth, thickness and state of the Lousey Coal seam under the site.

No other potentially shallow depth coal seams are anticipated in the underlying geological sequence beneath the site.

6.3. Deep Mine Workings

The appended Coal Authority report records deep mine working in the 3 seams of coal at 66m to 183m depth, and last worked in 1887, as detailed in the table below. Given the depths of the seams, the recorded extraction thicknesses and the date of last working, any associated workings would be anticipated to have sufficient rock cover not to pose a potential risk to the surface stability of the site.

Seam	Depth(m)	Dipping rate (°) & direction	Extraction thickness (cm)	Year last mined
Whinmoor	66	2.3 I SW	61	1898
Black Bed	139	2.9 I SW	87	1878
Better Bed	183	2.4 I SW	46	1887

TABLE 2 - DEEP MINE WORKINGS

The record highlighted in grey is not recorded beneath the site, but the surrounding area to the north-east.

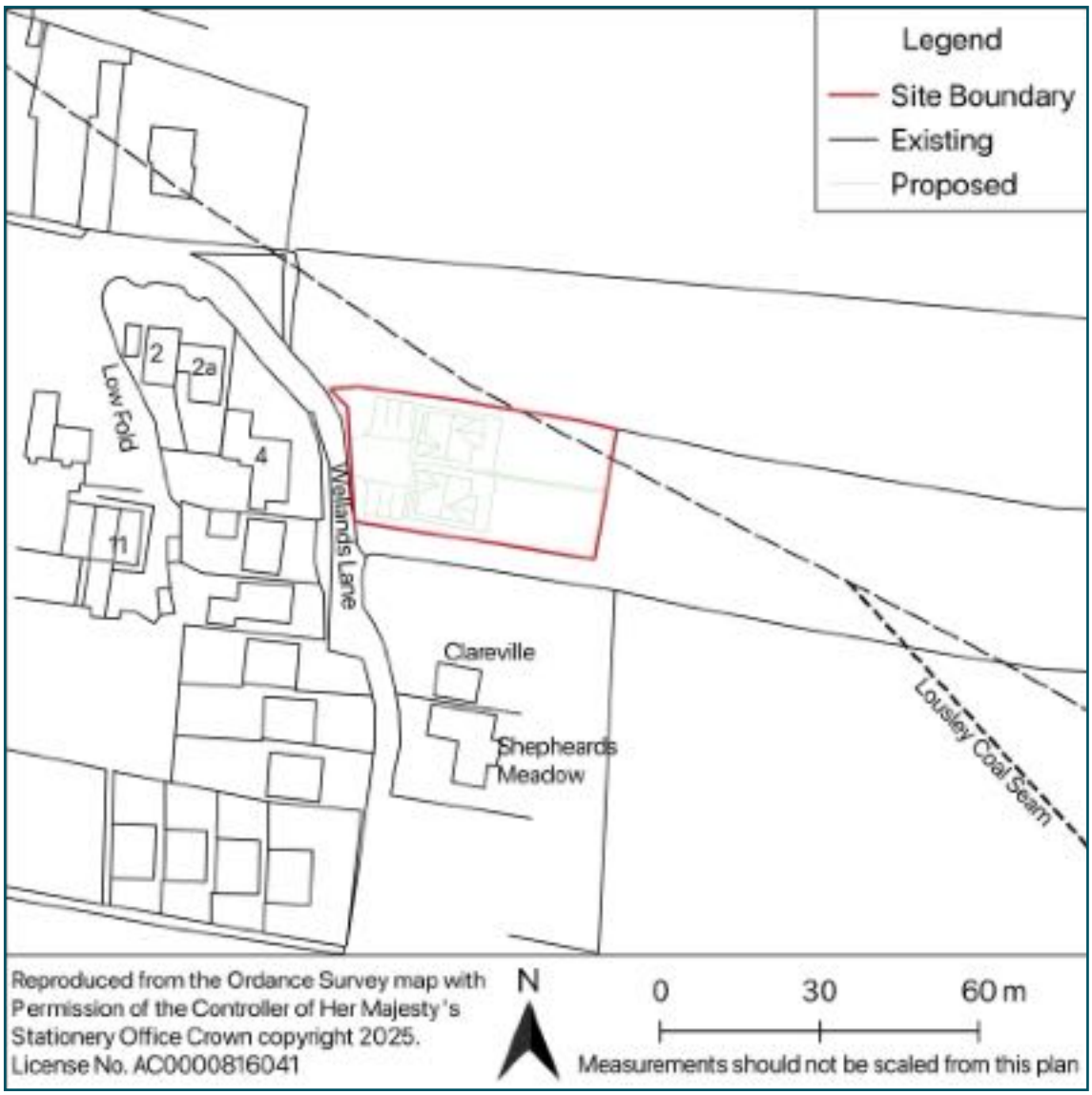


FIGURE 3 - GEOLOGICAL FEATURES

6.4. Mine Entries

No recorded mine shaft entries have been highlighted within 20m of the site boundaries. The risk of encountered unrecorded shafts on the site is deemed to be **very low** based on the geological setting of the site.

However, it should be noted that the potential for unrecorded mine entries cannot be ruled out at this stage.

6.5. Quarrying / Opencast

No historical quarrying has been identified on or immediately adjacent to the site. The resultant risk of unrecorded quarrying affecting the site is considered to be **very low**.

7. ANTICIPATED GROUND CONDITIONS

The anticipated ground conditions have been interpreted from the published geological maps of the area. At this stage the information should be used for guidance purposes only and confirmation of the actual ground conditions should be sought if deemed critical. No archive BGS borehole records are present in the vicinity of the site that could provide further insight into the potential ground conditions under the site.

Some localised made ground may be present in the vicinity of former buildings and the visible concrete hardstanding, to superficial depths. Natural soils are anticipated in the form of residual soils, weathered down from the parent bedrock.

The underlying Lower Coal Measures bedrock is likely to consist of mudstone and siltstone with bands of subordinate sandstone. The Lousey Coal is anticipated at shallow depth beneath the site, increasing with depth to the south-west as it dips into the surrounding hillside.

Groundwater is likely to be confined in the underlying bedrock sequence, however the actual depth and groundwater regime is unknown.

8. GEOTECHNICAL CONSIDERATIONS

8.1. General

An outline plan was available when completing this report. We understand that two residential houses with private garden areas are to be constructed at, or close to, existing ground levels. The proposed ground loadings were not know but for the purposes of this report are assumed to be less than 100 kN/m. If there are changes to these proposals, then some modification to the comments and recommendations given may be required.

8.2. Mining Precautions

The risk of unrecorded shallow mining affecting the site is considered to be **high** based on the geological setting of the site. It is recommended to carry out an intrusive shallow mining investigation to confirm the depth, thickness and state of the Lousey Coal seam under the site, and if any signs of potential shallow mine workings are present. This may also depend on the location of the conjectured geological fault, as the seam is only anticipated at shallow depth to the south-west of the fault.

No mine shafts have been highlighted on or within 20m of the site, with a **very low** potential of encountering unrecorded mine entries on the site, although the presence of unrecorded mine entries cannot be ruled out at this stage.

The risk of unrecorded quarrying having affected the site is deemed to be **very low** based on the historical and geological setting of the site.

8.3. Foundations

Intrusive Ground Investigation is recommended prior to foundation design to confirm the ground conditions present and determine the depth to a suitable founding stratum.

Plasticity Index testing should be undertaken on natural soils and weathered bedrock to confirm the applicable minimum founding depth in accordance with NHBC Standards. Consideration should also be given to the potential influence of any nearby trees on the existing and required foundation depths.

Provided that any shallow mine workings that could affect the surface stability of the site were first treated and sterilised, consideration can be given to utilising lightly reinforced strip footings founded at least 250mm into stiff residual clay soils or weathered bedrock.

If any signs of potential disturbance associated with the conjectured geological fault was recorded then consideration would need to be given to providing additional reinforcement of foundations to accommodate the potential for increased differential movement.

8.4. Floor Slabs

Without knowledge of the ground conditions across the site suspended floor slabs should be considered at this stage.

8.5. Highways & Hardstanding

New highways and hardstanding areas will likely need to be constructed on re-engineered material. For design purposes a CBR of 2.5% may be assumed at this stage provided that the formation is suitably proof rolled and any soft spots are removed.

8.6. Drainage & Excavations

Some difficulties in excavation of trenches for sewers and foundations in any made ground and the limestone bedrock (if encountered) should be anticipated. Consideration should be given to providing safe temporary support of excavations within made ground or where greater than 1.20m deep.

Soakaways are not recommended due to geological faulting, possible shallow mining and likely impermeable strata. Should soakaways be considered, in-situ testing at any proposed soakaway locations should be undertaken in accordance with BRE365:2016.

Attenuation and off-site drainage will therefore likely need to be considered.

All drainage measures will need to be designed in accordance with the Local Authority's Sustainable Drainage Systems (SuDS) requirements.

8.7. Chemical Precautions

Without undertaking chemical analysis of any made ground and natural soils on the site it should be assumed that sulphate resistant concrete is required at this stage. Water supply pipes should would also need to be resistant to any chemical contamination.

8.8. Ground Source Heating

Providing space heating and hot water using ground source heating could be considered for this site. If this method of heating is being proposed then a further assessment of the site and its underlying geology would be required to determine the most efficient ground loop configuration for the required heat load of the proposed building(s).

9. ENVIRONMENTAL SEARCHES

As part of the Phase 1 Desk Study assessment a Groundsure Enviro Insight report was obtained, dated 8 August 2025, to provide environmental search information on potentially contaminative sources and sensitive receptors across the site and surrounding area. The relevant findings of the Enviro Insight report are summarised below; the full report is included in the Appendix D.

9.1. Current Land Uses

Three industrial land uses for electricity substations have had even identified within 250m of the site by the appended Groundsure report, the nearest one is located 177m west of the site.

There are no recorded active petrol stations within 250m of the site.

9.2. Historical Industrial Sites

Several historical industrial uses have been identified within 250m of the site by the Groundsure report; which includes mills, tramway sidings, cuttings and a cemetery.

Three historical electricity substations were recorded by the Groundsure report. The nearest one is was previously located 163m west of the site.

No historical tanks, petrol stations and garages are identifies within 250m of the site by the Enviro Insight report.

9.3. Landfills and Waste Sites

No active or historical landfill sites have been identified within 250m of the site boundaries according to the Groundsure Insight report.

9.4. Potentially Infilled Land

No areas of potentially infilled land have been highlighted within 250m of the site.

9.5. Environmental Permits, Incidents and Registers

No environmental incidents have been highlighted within 250m of the site.

9.6. Environmentally Sensitive Receptors

The site is located within a designated green belt and SSSI Impact Risk Zone.

10. PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

Contaminated Land is defined under Part 2A of the Environmental Protection Act 1990, implemented through Section 57 of the Environment Act 1995. This supports a 'suitable for use' based approach to the risk assessment of contaminated land. The evaluation is based on an assessment of plausible pollutant linkages, referred to as the **source - pathway - receptor** model, based on the current or proposed use of the site.

A **pollutant linkage** is the relationship between a contaminant, a pathway and a receptor. Unless all three elements are present there is not considered to be a potential pollutant linkage.

However, where a potential pollutant linkage is deemed to be present, the resultant risk is based on the consequence should the event occur, and the probability that the event will occur, as outlined in CIRIA C552. A tabulated summary of the resultant risk matrix is provided below for contextual purposes.

		Consequence (C)			
		Severe	**Medium**	**Mild**	**Minor**
Probability (P)	**High Likelihood**	Very high risk	High risk	Moderate risk	Moderate / low risk
	Likely	High risk	Moderate risk	Moderate / low risk	Low risk
	Low likelihood	Moderate risk	Moderate / low risk	Low risk	Very low risk
	Unlikely	Moderate / low risk	Low risk	Very low risk	Very low risk

RISK MATRIX FOR ENVIRONMENTAL RISK ASSESSMENT (BASED ON CIRIA C552)

Part 2A states that for land to be defined as Contaminated Land by the Local Authority it needs to be in such a condition that:

- Significant harm is being caused, or there is significant possibility of such harm being caused.
- Pollution of controlled waters is being caused, or likely to be caused.

The potential risks associated with historical land uses have been assessed in relation to the tables provided in Appendix E.

10.1. Proposed Site Use

We understand that the proposed development will comprise the construction of two residential dwellings with garden areas at or near existing ground levels. A proposed layout plan is included in Appendix A.

There is also a lesser potential for any construction workers to come into contact with existing soils, and standard precautionary measures should be employed to reduce the potential for dermal contact and/or inhalation of dust or vapours. Good hygiene practises and facilities should also be provided as a standard precautionary measure.

Based on the proposed end use of the site any chemical testing should be compared against current Soil Guideline Values for a land use scenario of residential with homegrown produce (RwHP) when carrying out a Generic Quantitative Risk Assessment (GQRA).

10.2. Potential Pathways

- Dermal contact (indoor and outdoor).
- Ingestion of soil and indoor dust.
- Indirect ingestion (indoor and outdoor).
- Inhalation of dust (indoor and outdoor).
- Inhalation of vapours (indoor and outdoor).
- Leaching to groundwater
- Surface water run-off.
- Director contact with concrete substructures.
- Migration through the ground (vertical and horizontal).

10.3. On Site Contamination

The historical review of the surrounding area has not identified any significant potential sources of on-site contamination that could pose a risk to future site users. Given the site's historical use as undeveloped fields and the presence of a concrete base foundation observed during the site walkover, the resulting risk is considered to be **low**.

No obvious visual or olfactory signs of potential contamination were identified during the walkover survey.

10.4. Off Site Contamination

No significant sources of potential off-site contamination have been identified with a resultant **very low** risk to future receptors.

10.5. Ground Gases

According to the Enviro Insight report the site is not within a radon affected area as defined by the Health Protection Agency (HPA) and radon protection measures are **not** required to be installed in any new buildings in accordance with Building Research Establishment (BRE) document BR211.

No recorded landfill sites have been identified within 250m of the site, nor any other potential sources of significant ground gas generation, and only minimal made ground would be anticipated across the site due to the historical setting of the site.

Ground gas monitoring will also be undertaken and a ground gas risk assessment undertaken to confirm the requirement (if any) for ground gas protection measures to be installed into any new buildings on the site.

If signs of potential shallow mine workings are identified beneath the site then the potential risks from any mine gases should also be undertaken based on the findings of the ground gas monitoring.

10.6. Invasive Species

The vegetation in and around the site has been examined. No obvious signs of potential invasive plant species were noted during the site walkover undertaken. However, not seeing any signs of invasive plants during our brief time on site cannot be a guarantee that they are not present on or around the site.

10.7. Conceptual Site Model

Using the information presented above and the **source - pathway - receptor** model, a Conceptual Site Model (CSM) has been formulated to determine whether a potentially significant pollutant linkage is perceivable and what potential risks are posed to the identified future receptor from each potential contaminant source.

The CSM is tabulated and shown graphically in Appendix F. Where required the CSM should be updated as further investigation and/or development works progress to reflect the potential risks to future receptors, especially if any previously unidentified ground conditions are encountered.

To further refine the potential risks identified on the initial CSM it would be recommended to carry out intrusive Ground Investigation and associated laboratory testing and ground gas monitoring. Further details regarding the recommended scope of investigatory works is included in Section 14 (Further Investigation) of this report.

10.8. Imported Soils

If any imported soils are required to be brought to site to facilitate the proposed development, they will need to be validated to confirm their chemical suitability, and that they do not pose a risk to future receptors. The soils should be validated in accordance with Yorkshire And Lincolnshire Pollution Advisory

Group (YALPAG) guidance *"Verification Requirements for Cover Systems"* version 4.1, dated June 2021.

The scope and frequency of analysis required to validate any imported soils will be dependent on the source and/or historical setting of the source site and the volume of soils imported to site.

11. WASTE DISPOSAL

Any waste arising from development of the site, such as excess soil or material deemed unsuitable for retention on site, should be disposed of in accordance with the Duty of Care Regulations. If any soils are being disposed directly to a landfill site Waste Acceptance Criteria (WAC) analysis may be required in addition to basic environmental screen testing to determine the most appropriate disposal facility for the waste, in accordance with the requirements of the current Landfill Directive.

12. REGULATORY APPROVAL

The conclusions and recommendations in this report are based on a review of available information and observations made during the site walkover survey undertaken. The conclusions cannot be guaranteed to gain regulatory approval if this report is required as part of a planning application. If it is required as such it should be passed to the relevant regulatory bodies for their comment and approval.

13. CONCLUSIONS

Based on the findings of the Phase 1 Desk Study and associated Conceptual Site Model an intrusive Phase 2 Ground Investigation is recommended to confirm the chemical suitability of the existing soils for retention or reuse in any soft landscaping areas, and to confirm the ground conditions across the site for geotechnical design purposes.

It is recommended to undertake a series of window sample holes around the area proposed for residential development, with representative disturbed samples of the strata encountered to be taken to facilitate subsequent chemical and geotechnical laboratory testing.

To confirm the depth, thickness and state of the Lousey Coal beneath the site it would be recommended to undertake a shallow mining investigation consisting of three rotary openhole boreholes to at least 1m below the Lousey Coal seam. If any signs of broken ground, voids or soft ground are encountered that could be indications of associated shallow mine workings this will allow determination as to whether treatment of shallow mine workings is required a part of the proposed redevelopment of the site.

Apart from if any shallow mine workings are encountered, no other significant sources of potential ground gas generation have been highlighted by the Phase 1 Desk Study

information. As groundwater monitoring is recommended for geotechnical design purposes, ground gas monitoring would also be undertaken from monitoring standpipes installed into a selection of the window sample holes. At this stage it is considered that five monitoring standpipes would be installed, and monitored on six post-investigation monitoring visits. On completion of the monitoring a ground gas risk assessment would be undertaken to confirm the present, if any, for ground gas protection measures to be installed into any new buildings as part of the proposed redevelopment of the site.

APPENDIX A - PROPOSED LAYOUT DRAWINGS



Proposed Site Plan

1 : 200

SCALE 1:200

0 2m 4m 6m 8m 10m

CLIENT
Shaun Rogerson

PROJECT
Land at Wellands Lane, Scholes, BD19 6EY

DRAWING TITLE
Proposed Site Plan

STATUS
S0 - Feasibility

Proj Ref	Origin	Zone	Level	Type	Role	Num	Status	Rev
24016	BAS	00	00	DR	A	01100	S0	-

Sheet	Scale	Issue Date	Drwn by	Ckd by
A3	1 : 200	07-08-24	AB	AB

North
W E
S

REV	DESCRIPTION	DATE	ISSED BY

ISSUE/REVISION HISTORY

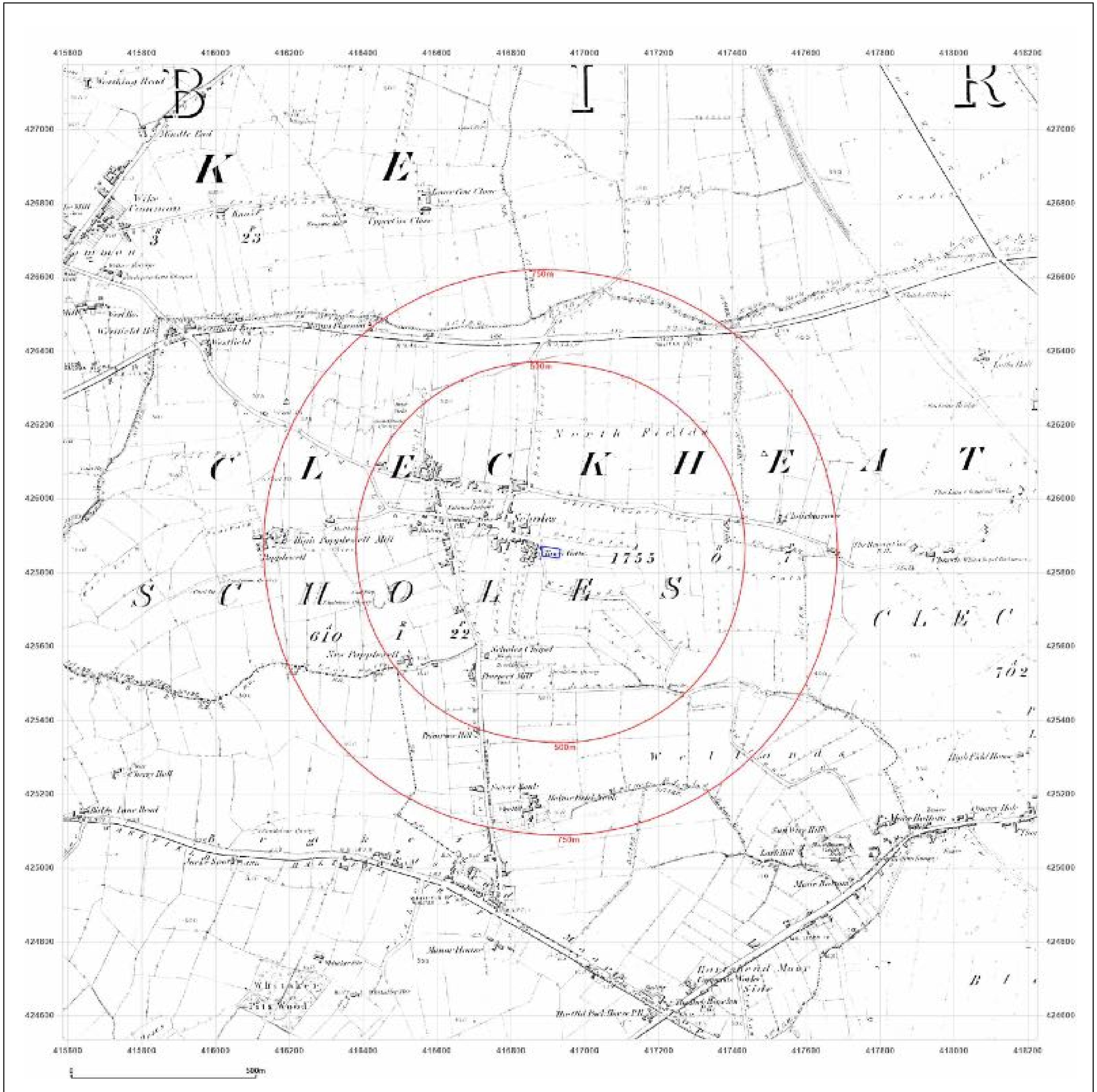
BARNES ARCHITECTURAL SERVICES
Unit 19, Victoria Spring Business Park
Liversedge, West Yorkshire WF15 6BU

NOTES
Do not scale from this drawing. Only figured dimensions are to be taken from this drawing. Contractor must verify all dimensions on site before commencing any work or shop drawings. Report any discrepancies to the architect before commencing work. If this drawing exceeds the quantities taken in any way the architects are to be informed before the work is initiated. Work within the Construction (Design & Management) Regulations 2015 is not to start until a Health and Safety Plan has been produced. This drawing is copyright and must not be reproduced without consent of BARNES ARCHITECTURAL SERVICES.

DRAWING STATUS/TYPE KEY

S0	Feasibility	S2	Sketch
L	Landscape	D4	Construction
S4	Planning	Z	Marketing
B	Building Survey	B3	As Built
D2	Tender	Z	Tenant
OS	Ordnance Survey		

APPENDIX B - HISTORICAL MAPS



Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

Map date: **1854**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1849
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A

Surveyed 1847
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A

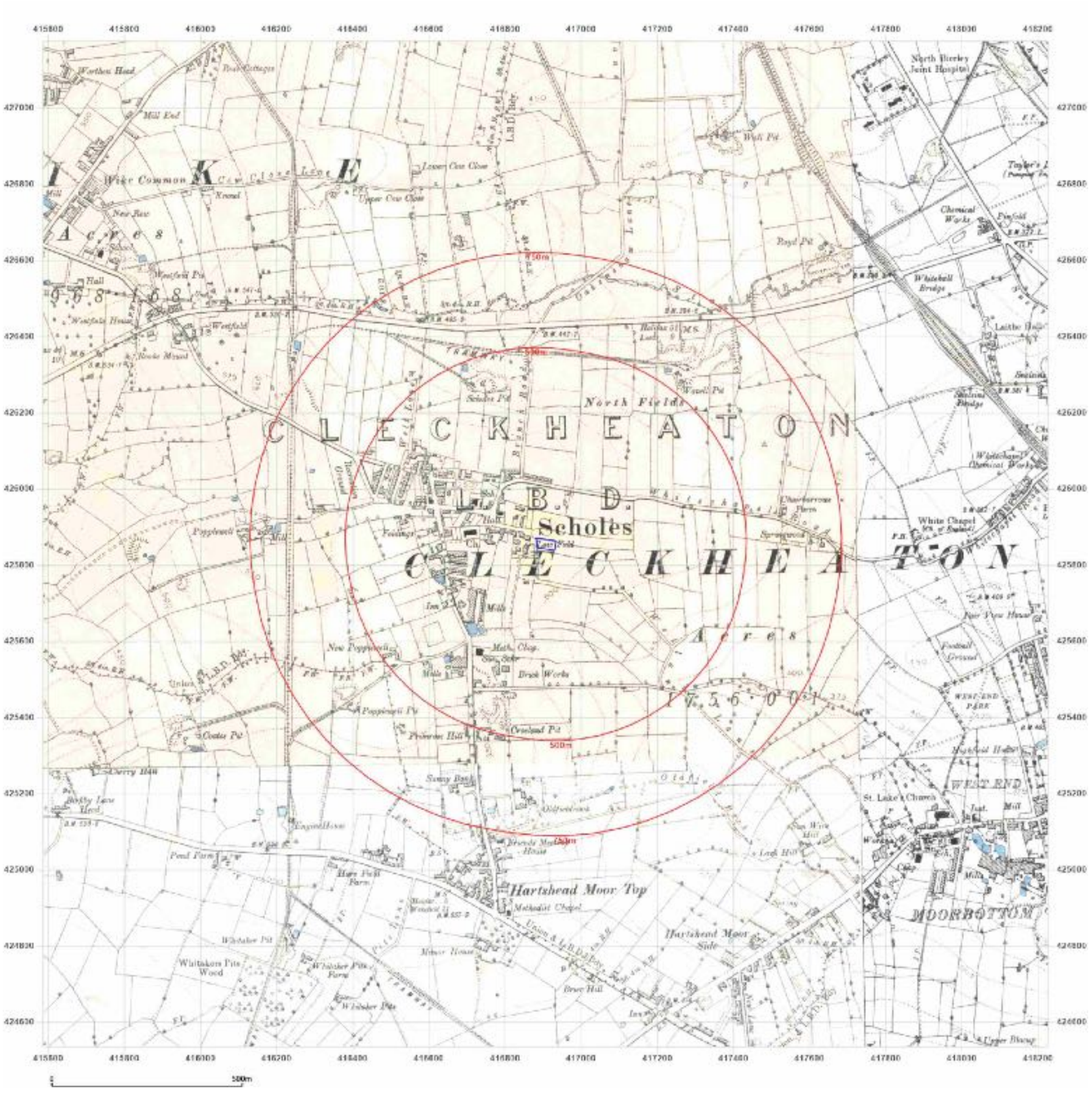
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Production date: 08 August 2025

Map legend available at:
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

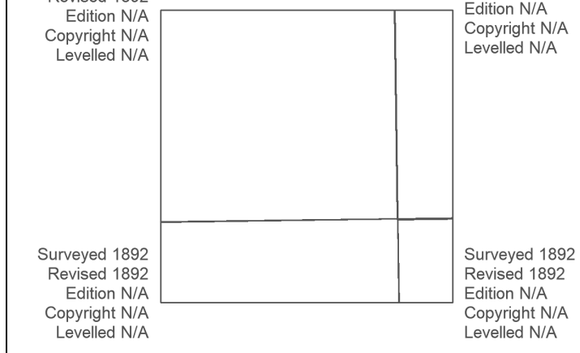
Map Name: County Series

Map date: **1892**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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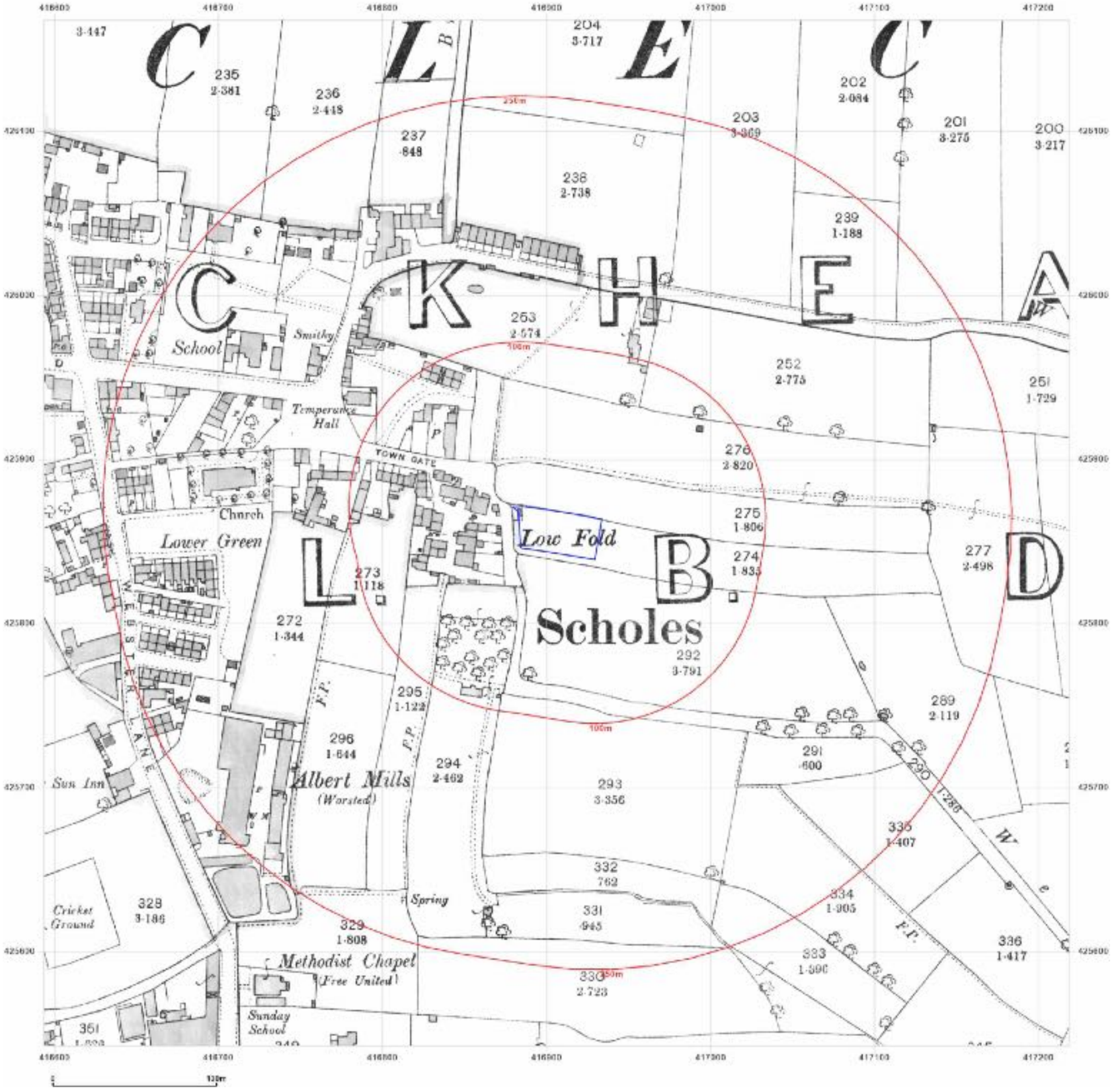
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

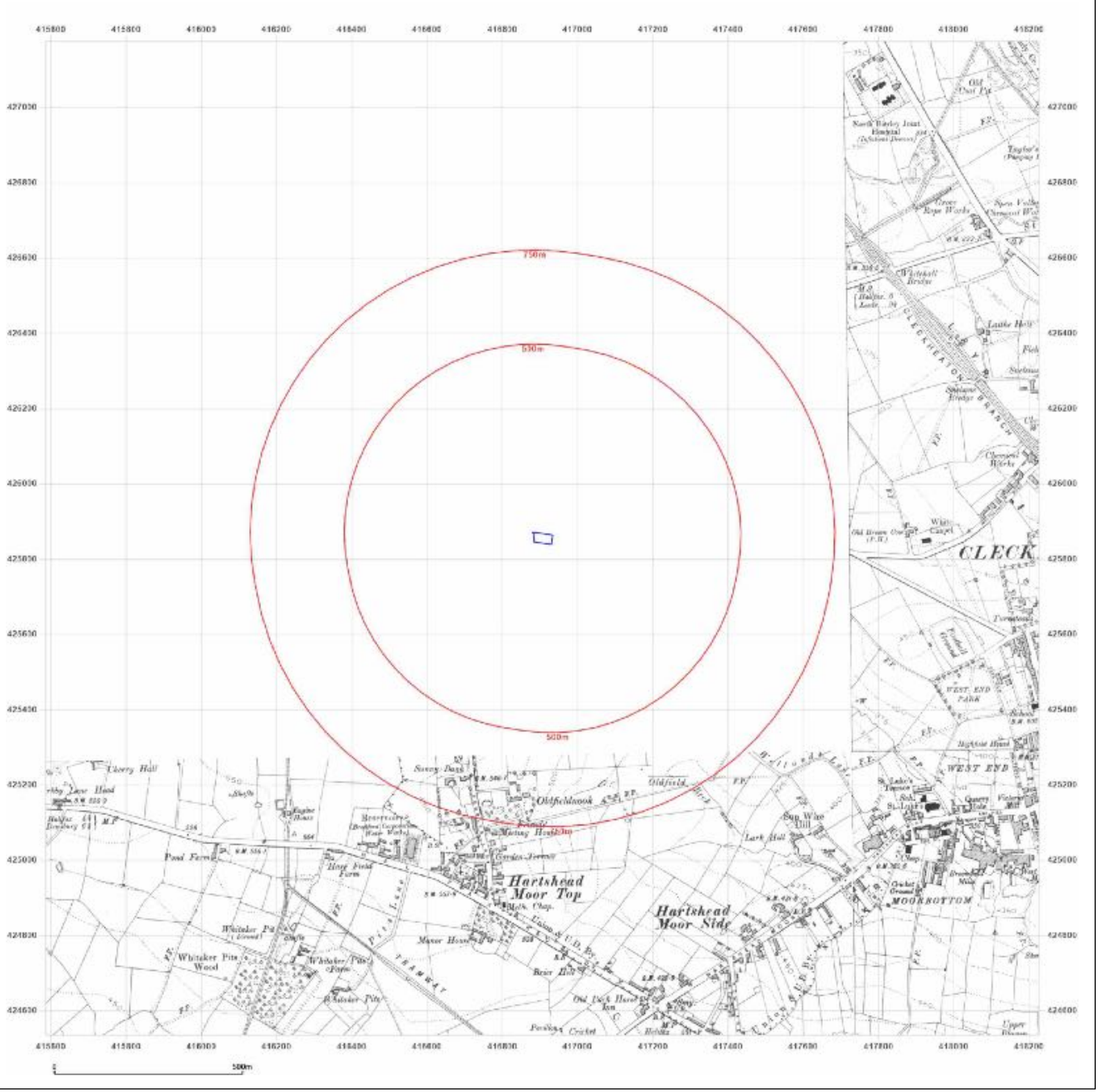
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Site Details:

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SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

Map date: **1905**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1889
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1888
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1889
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

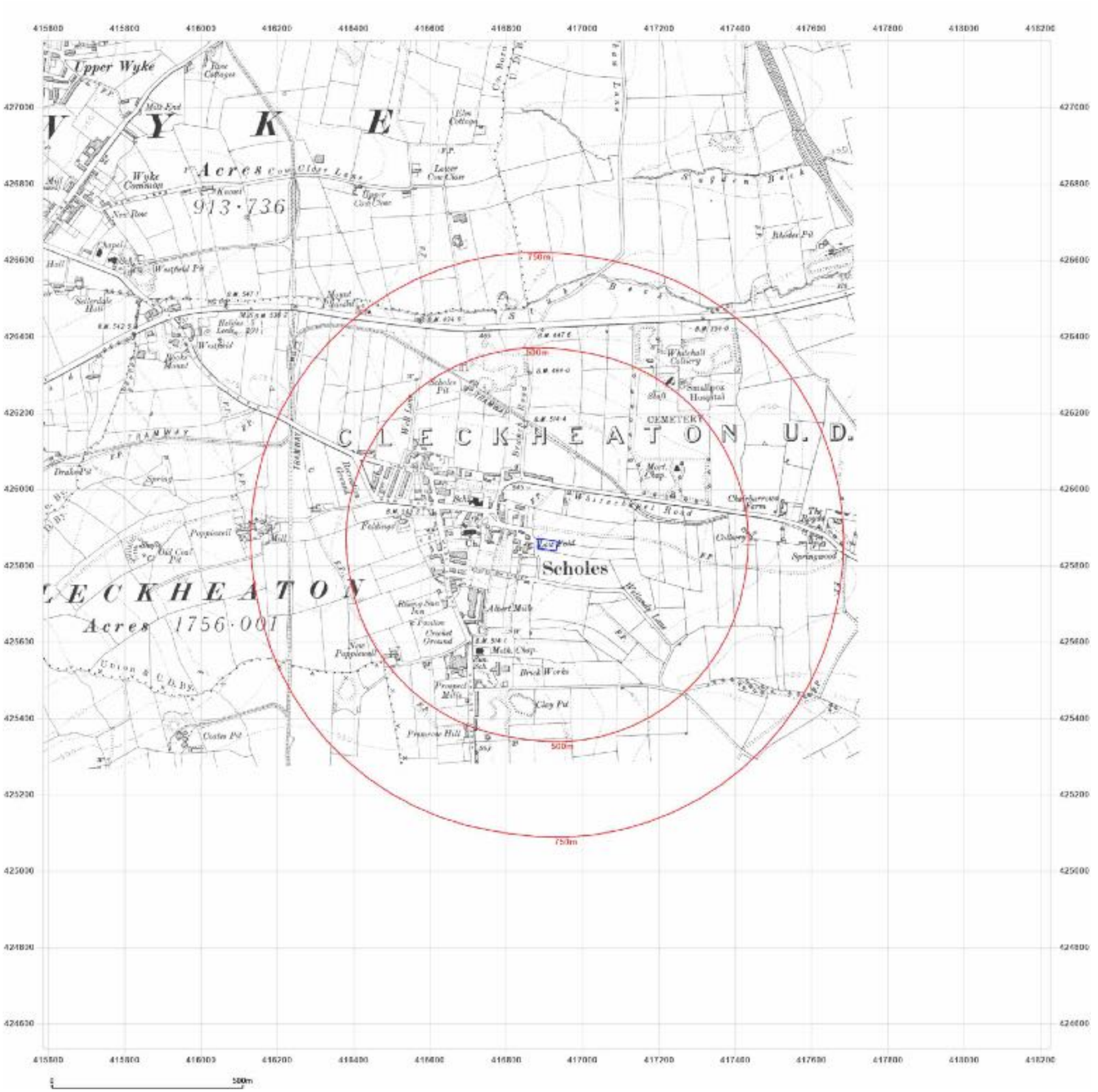
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

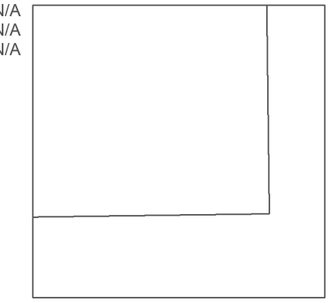
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N
W E
S

Surveyed 1892
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A



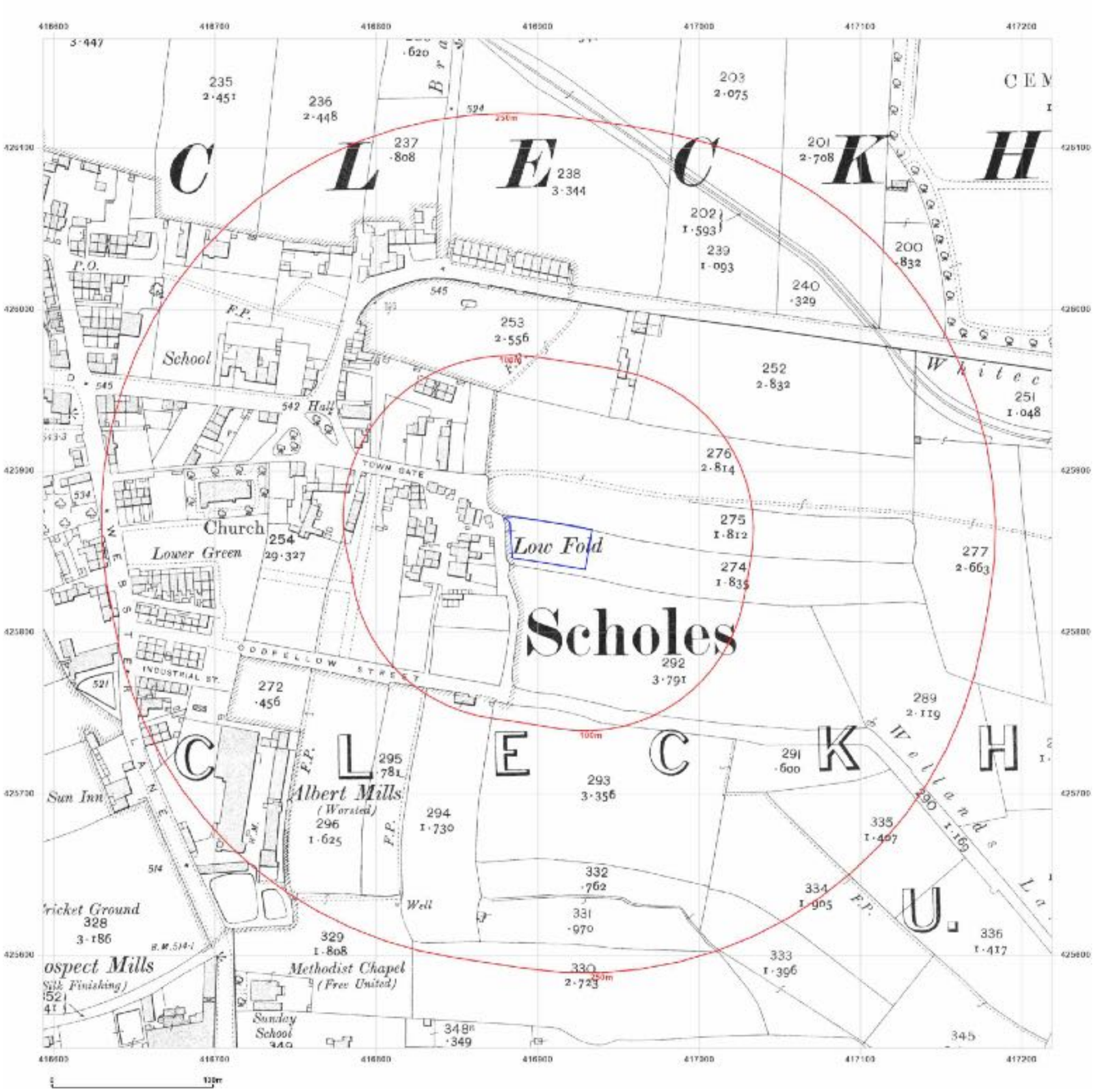
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Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

Map date: **1907**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

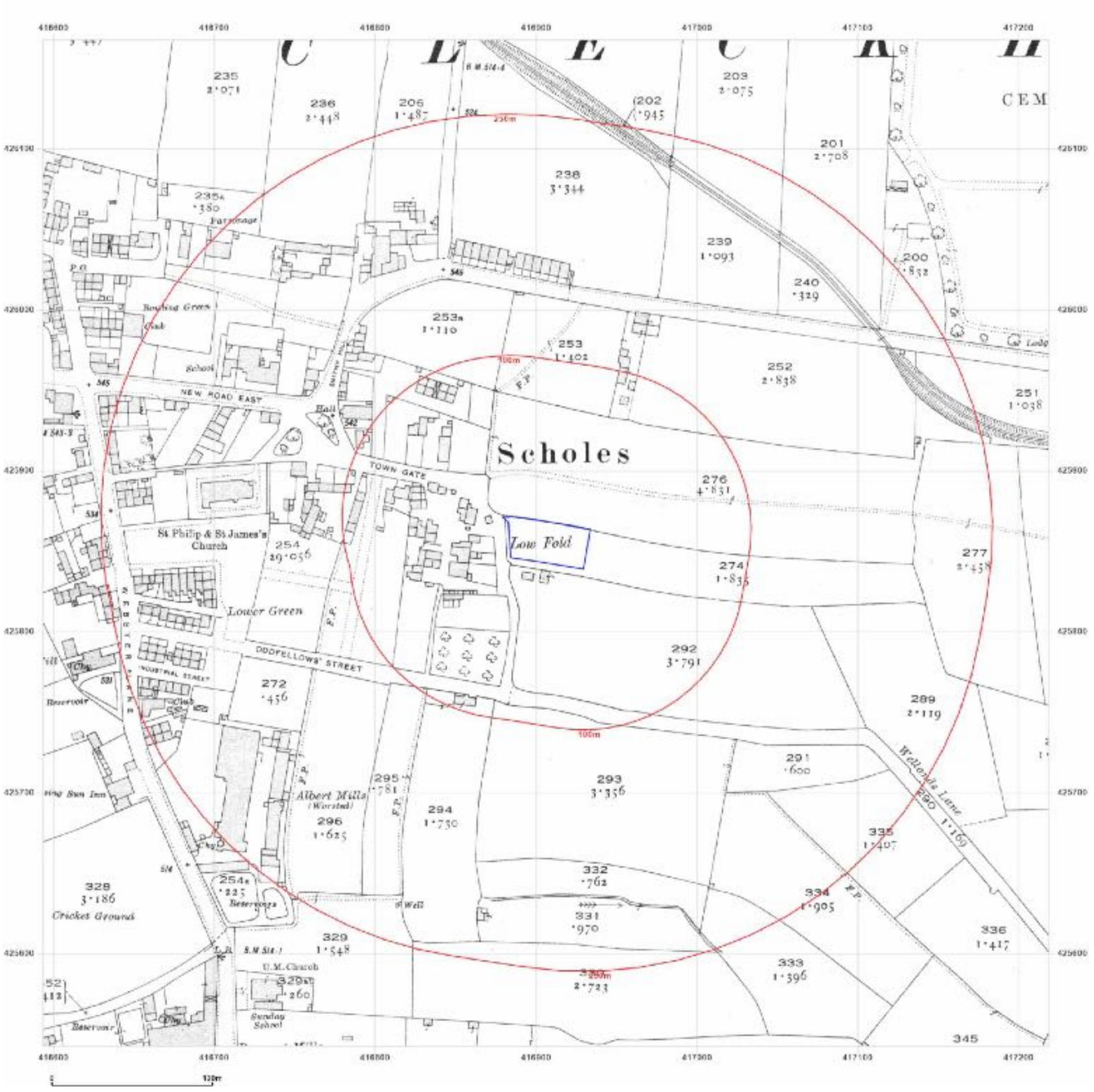
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Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

Map date: **1922**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

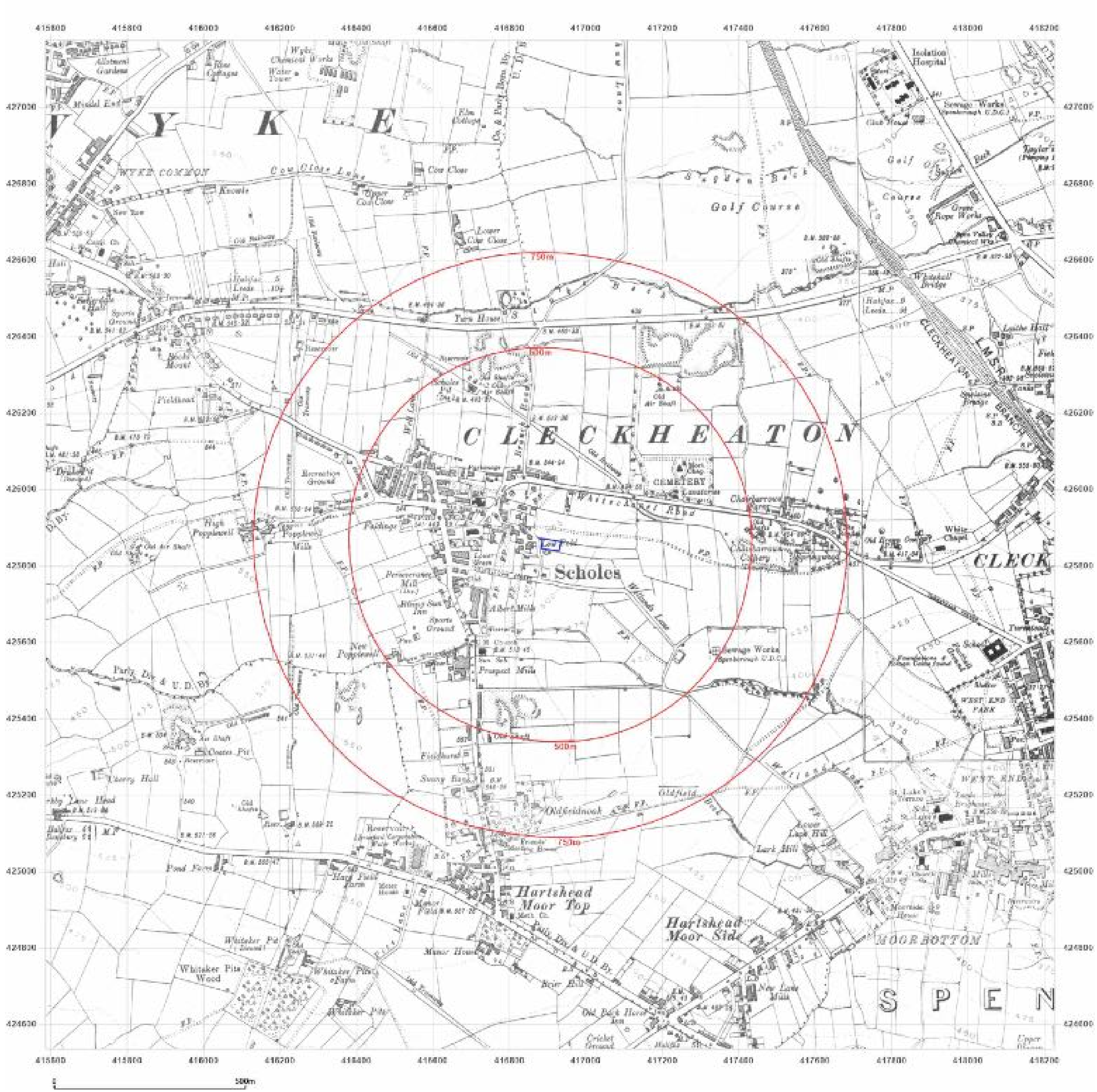
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BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

Map date: **1931-1932**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1850 Revised 1932 Edition N/A Copyright N/A Levelled N/A	Surveyed 1850 Revised 1932 Edition N/A Copyright N/A Levelled N/A
Surveyed 1849 Revised 1931 Edition N/A Copyright N/A Levelled N/A	Surveyed 1851 Revised 1931 Edition N/A Copyright N/A Levelled N/A

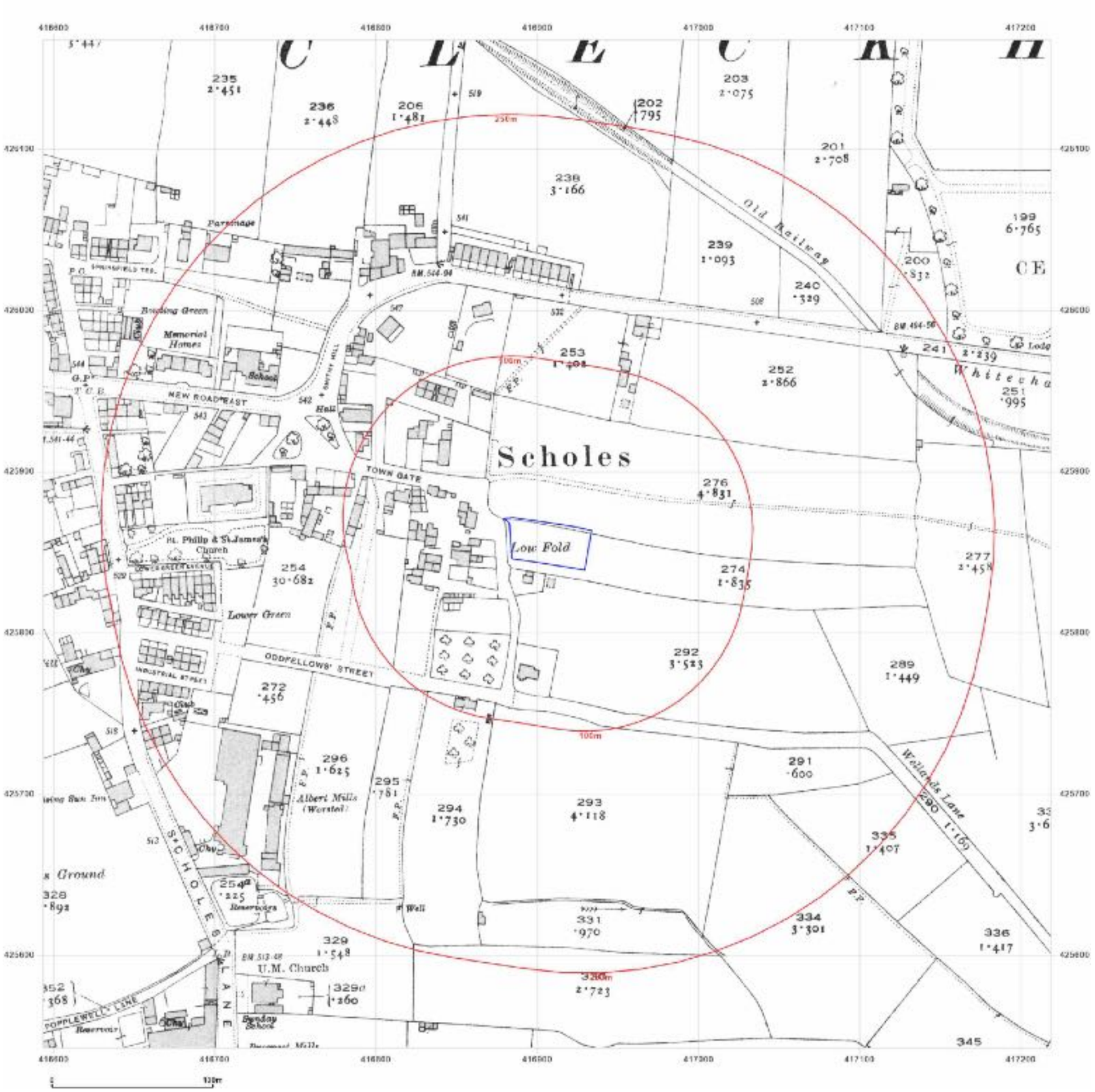
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Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

Map date: **1933**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

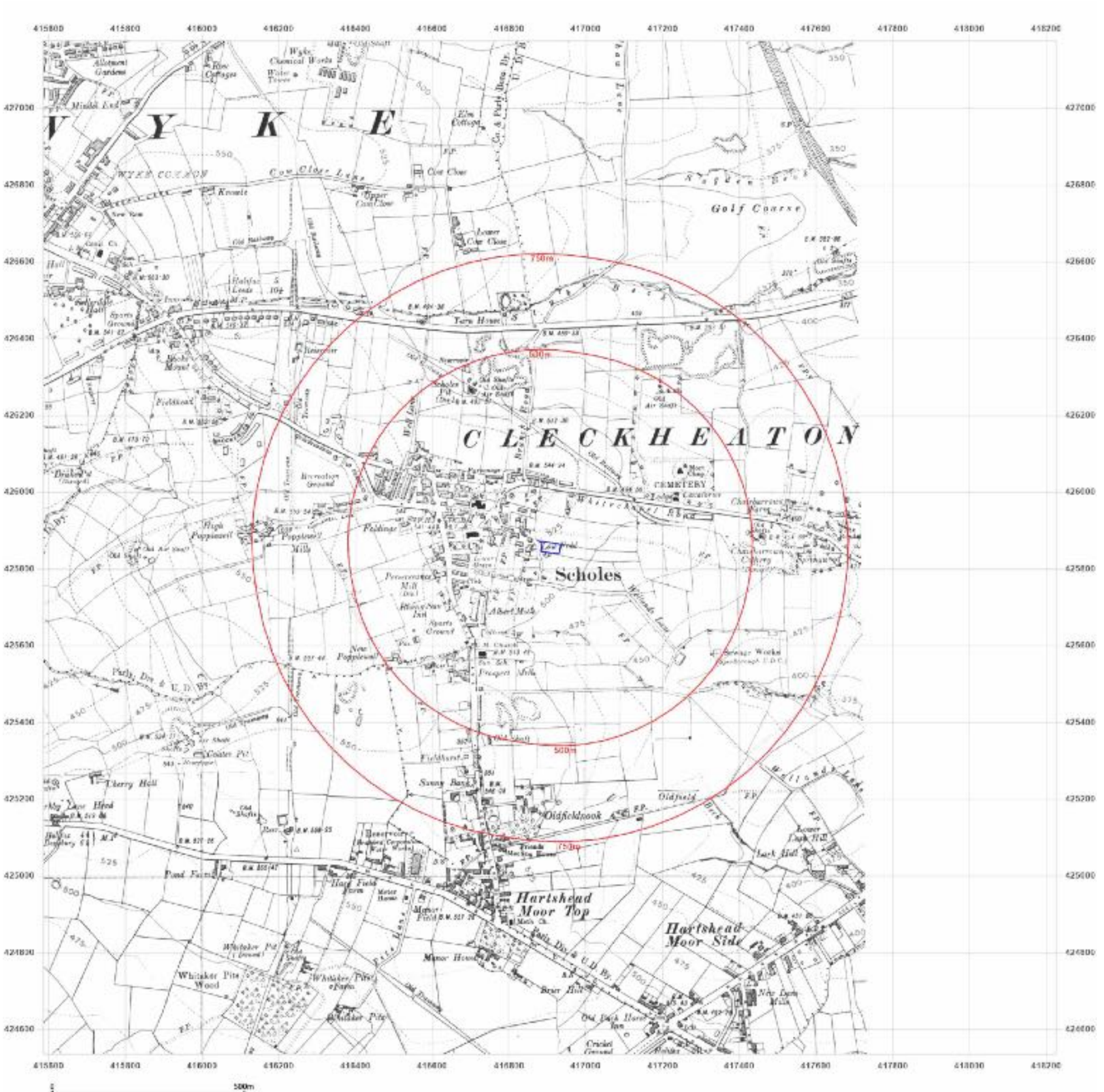
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BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1850
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Surveyed 1849
Revised 1938
Edition N/A
Copyright N/A
Levelled 1931

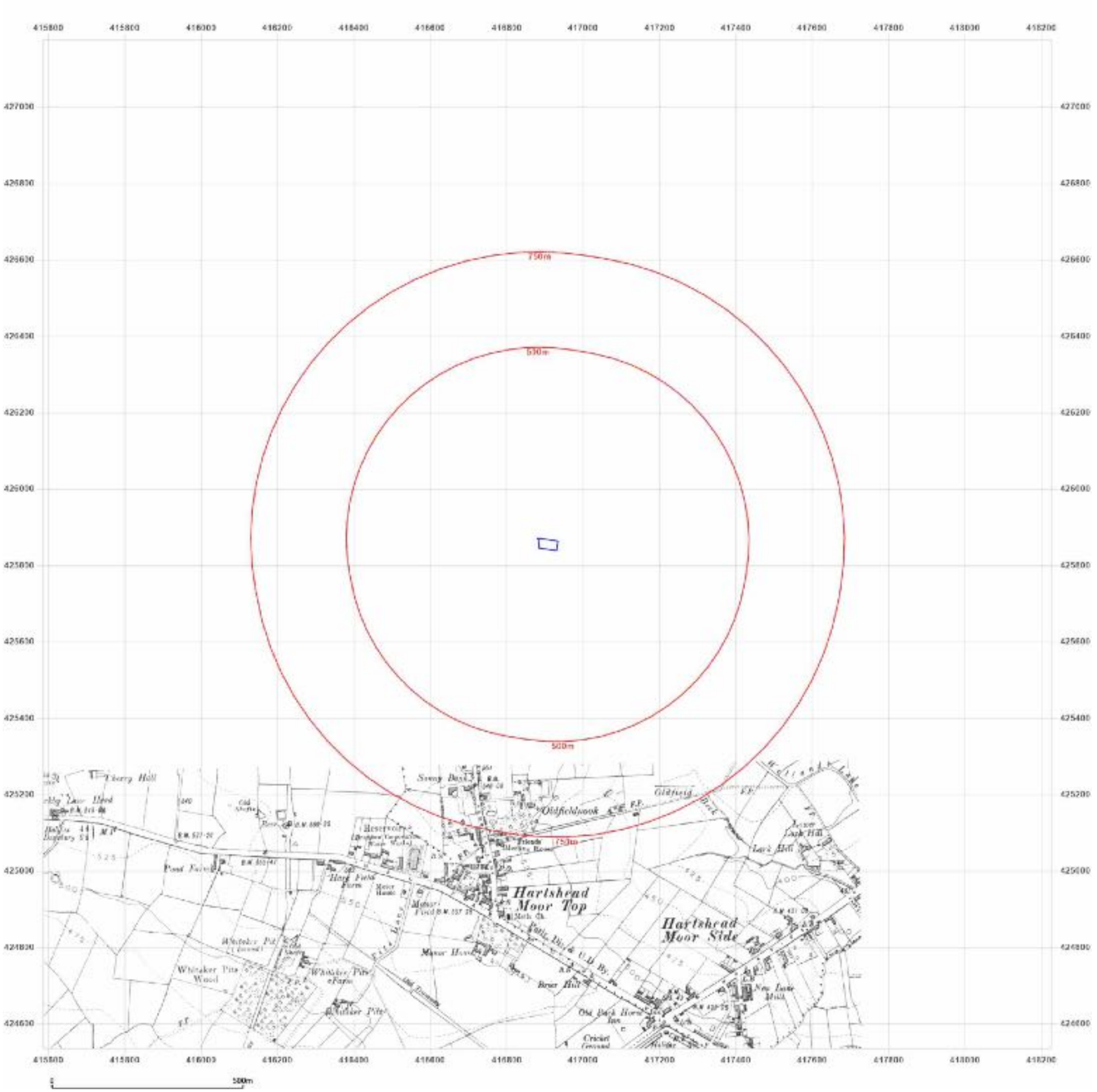
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BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

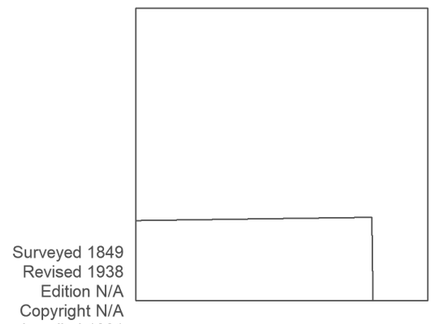
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N
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Surveyed 1849
Revised 1938
Edition N/A
Copyright N/A
Levelled 1931

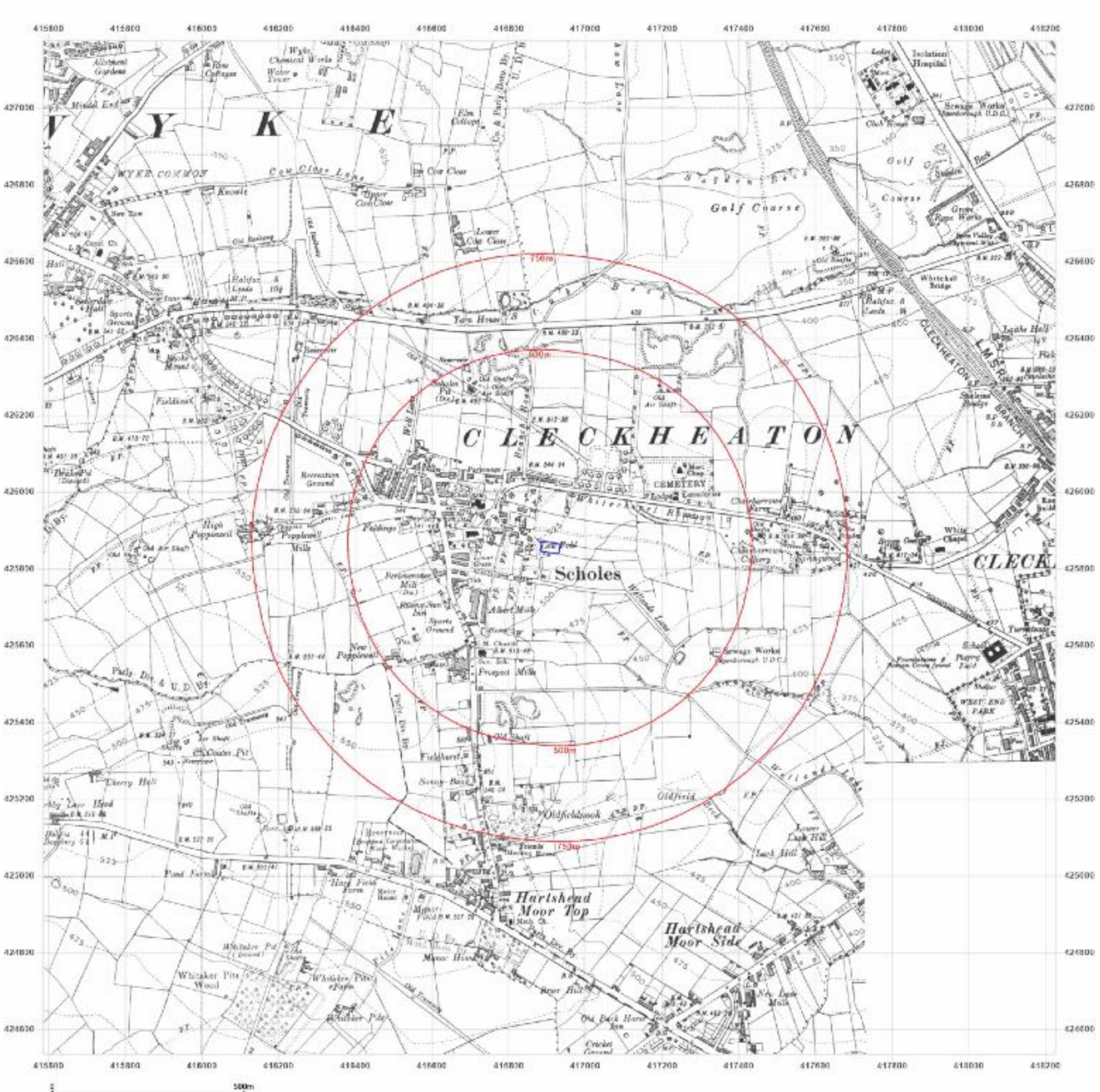
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Site Details:

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BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

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

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

Surveyed 1849
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

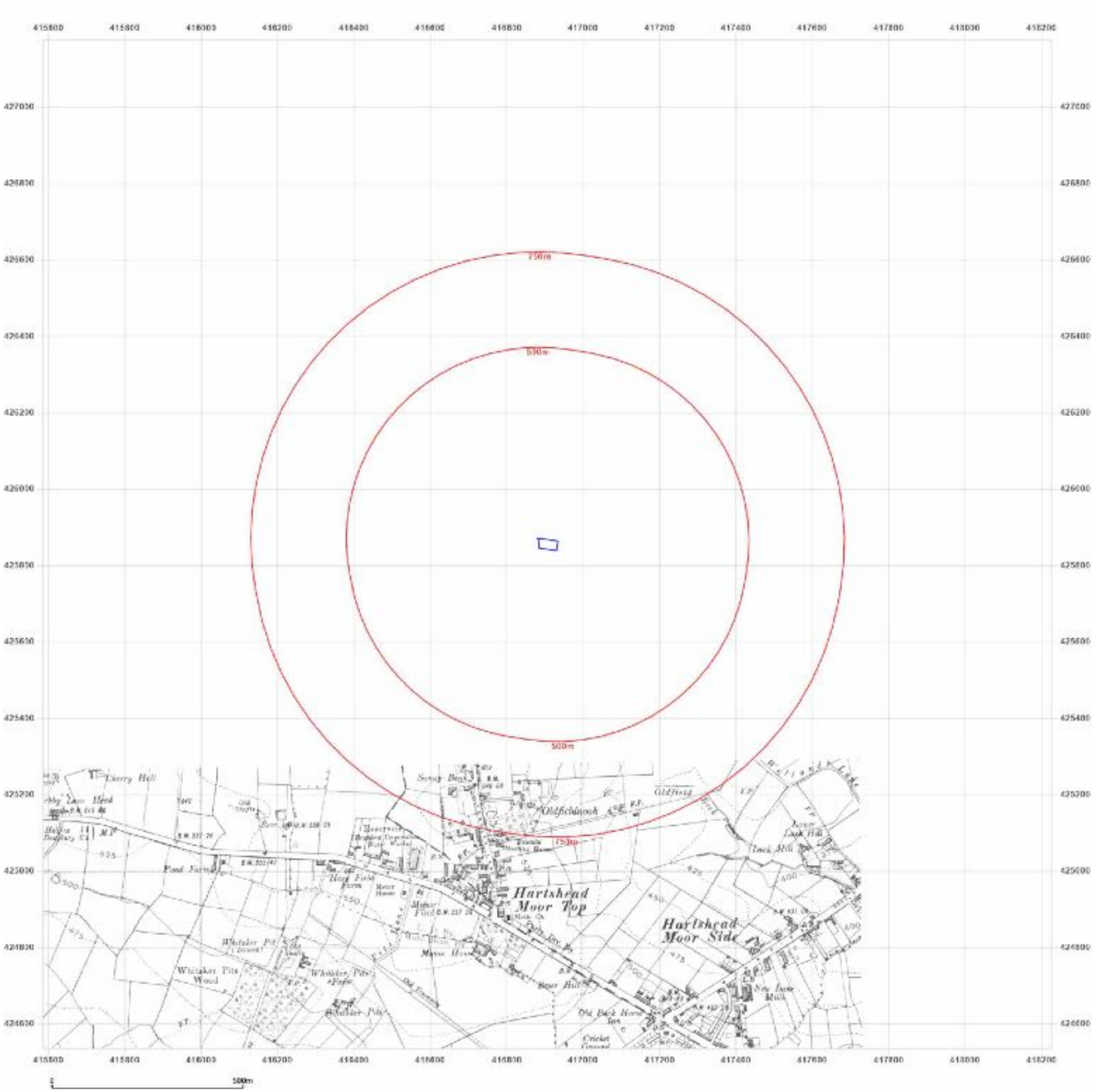
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SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

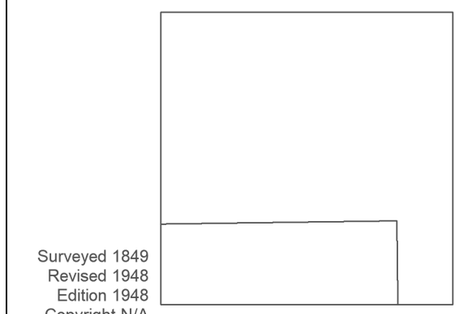
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Map date: **1948**

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Printed at: 1:10,560

N
W E
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Surveyed 1849
Revised 1948
Edition 1948
Copyright N/A
Levelled N/A

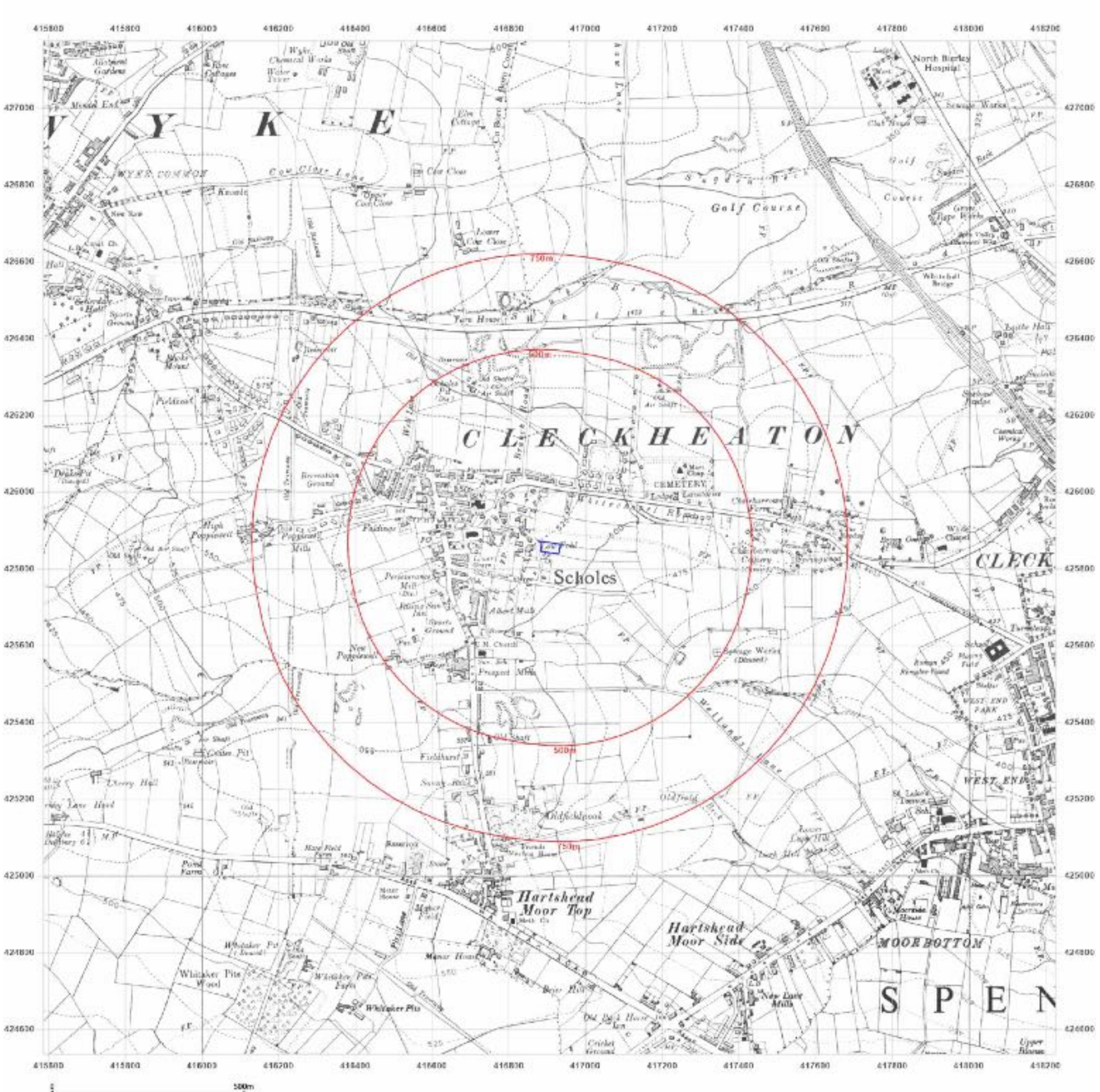
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: Provisional

Map date: **1951-1955**

Scale: 1:10,560

Printed at: 1:10,560

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

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

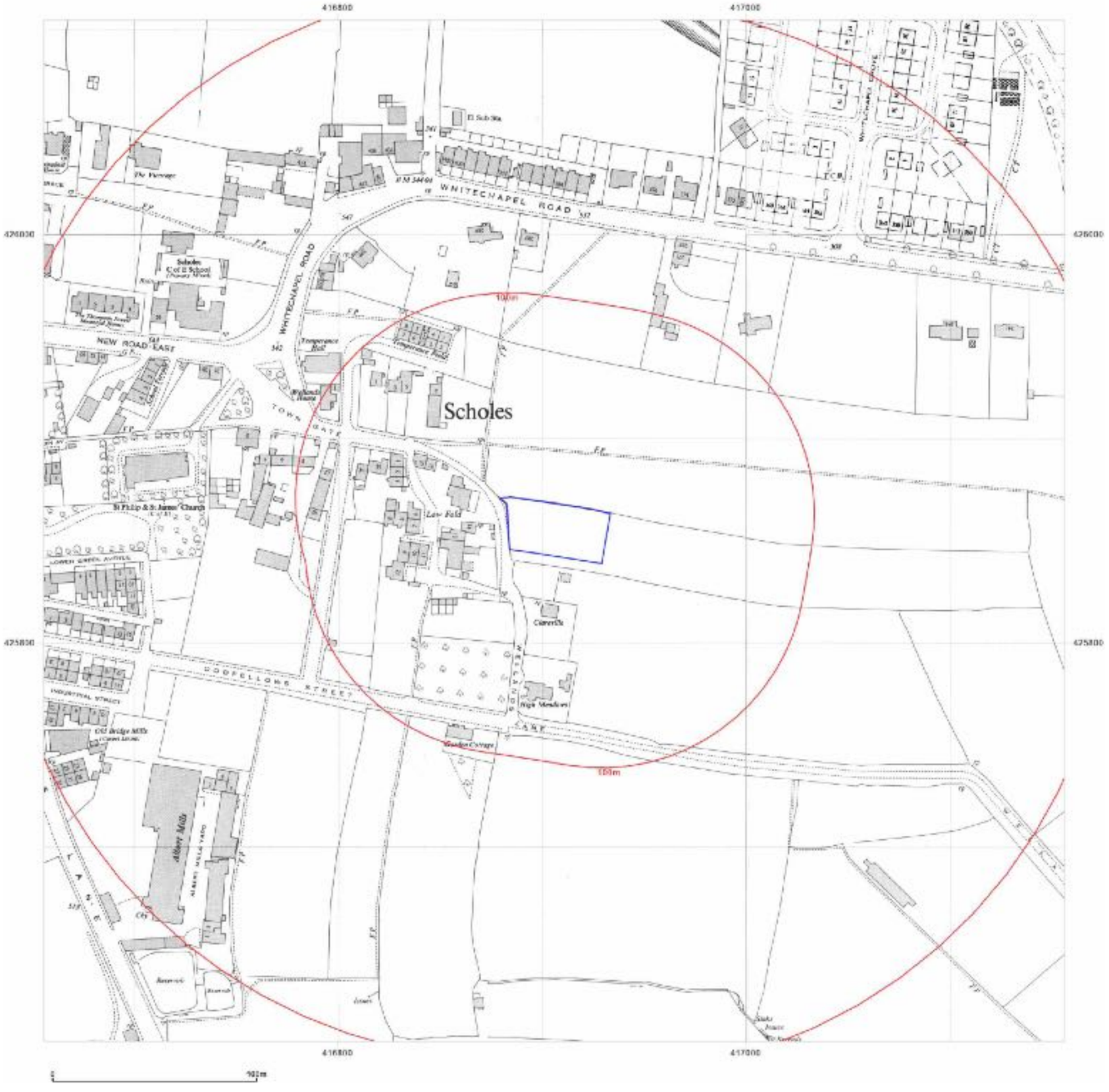
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Site Details:

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SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **1956**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
S

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1931

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

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1931

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1931

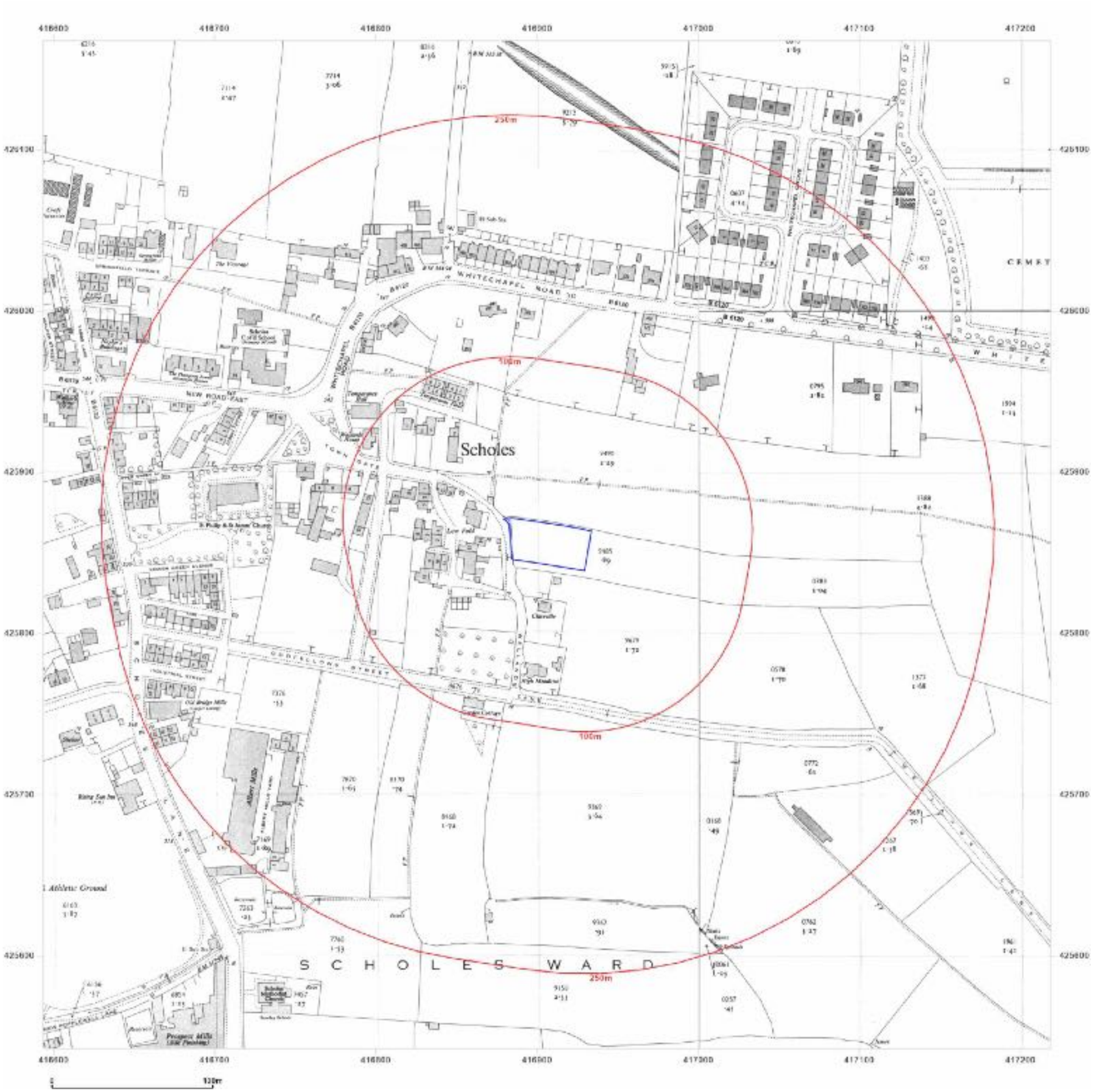
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid
Map date: **1957**
Scale: 1:2,500
Printed at: 1:2,500

N
W E
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Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1931

Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1931

Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1931

Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1931

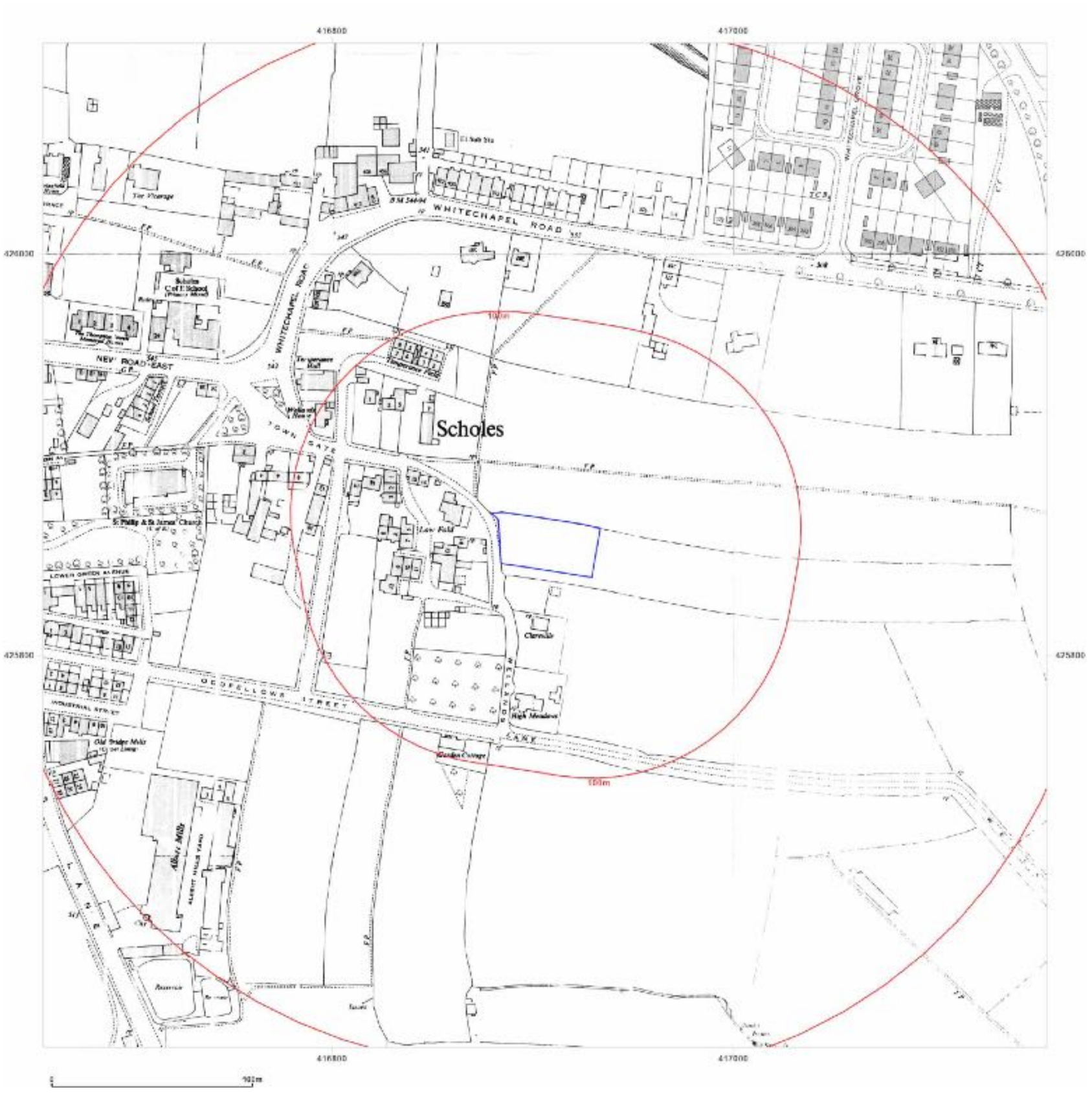
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid
Map date: **1957-1960**
Scale: 1:1,250
Printed at: 1:2,000

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

Surveyed 1956
Revised 1956
Edition N/A
Copyright 1960
Levelled 1931

Surveyed N/A
Revised N/A
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Levelled N/A

Surveyed N/A
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Levelled N/A

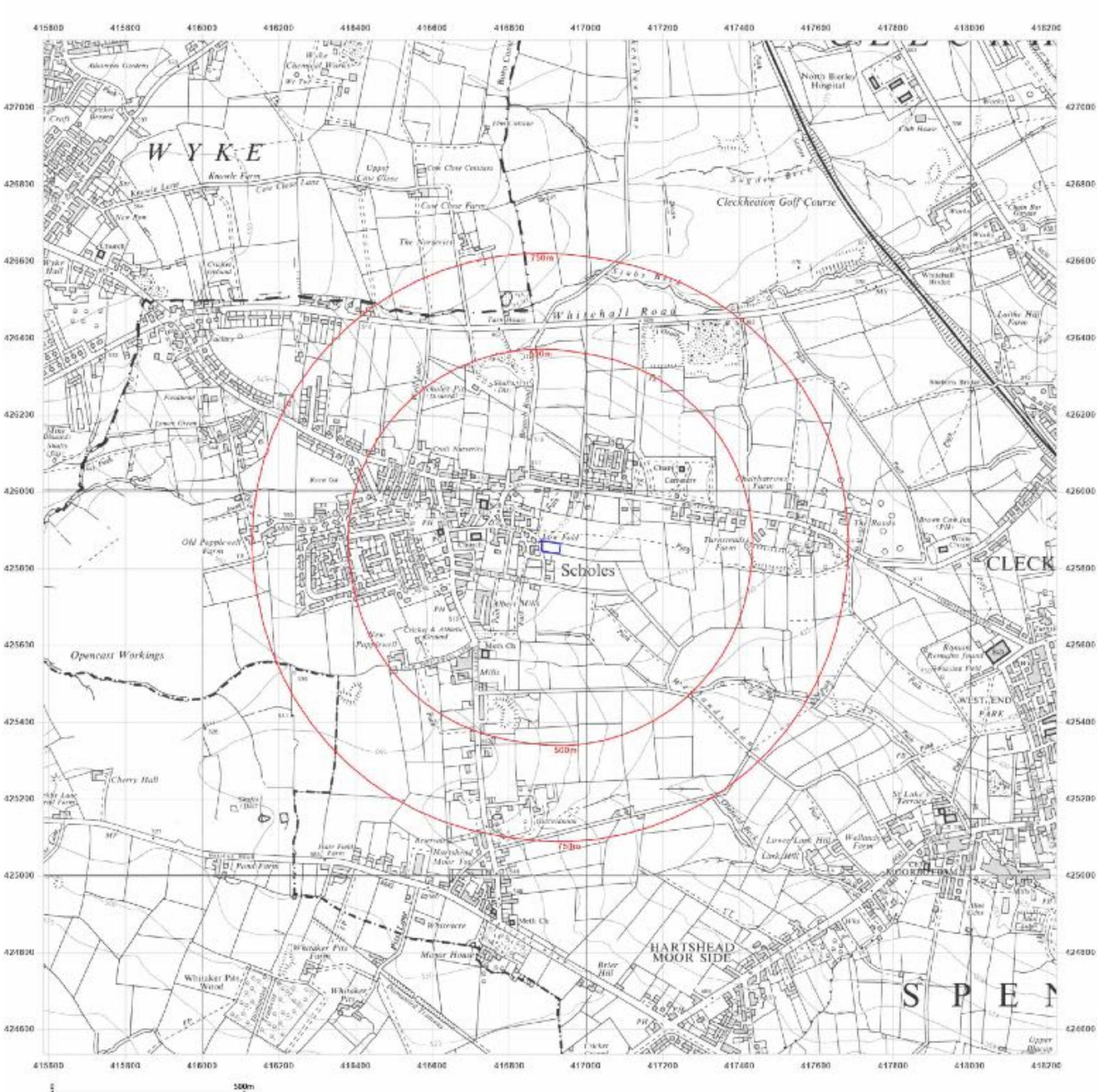
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BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: Provisional

Map date: **1966-1967**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1967
Revised 1967
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

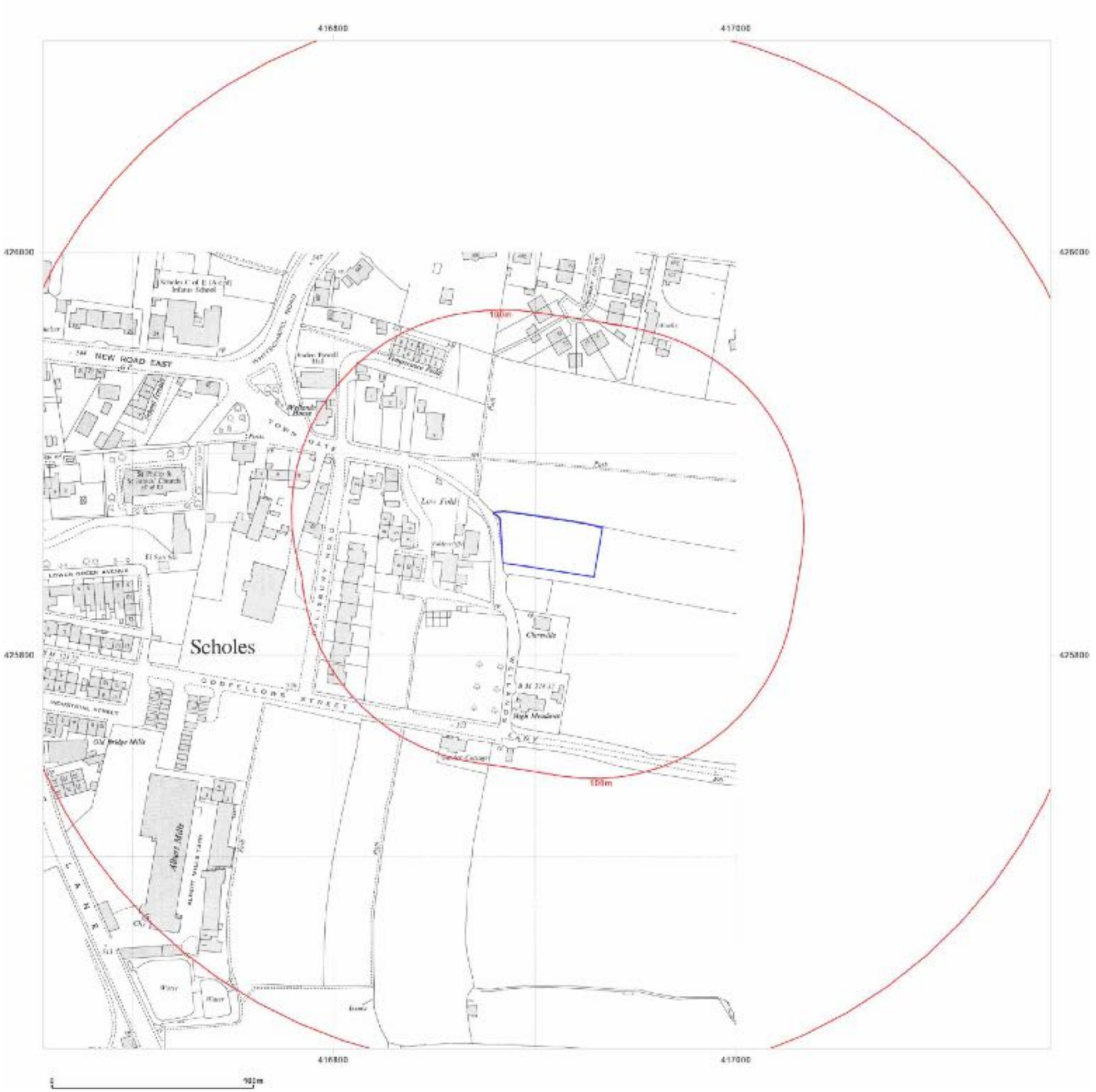
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Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

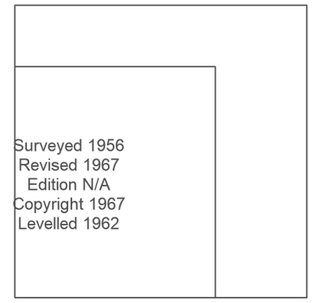
Map Name: National Grid

Map date: **1967**

Scale: 1:1,250

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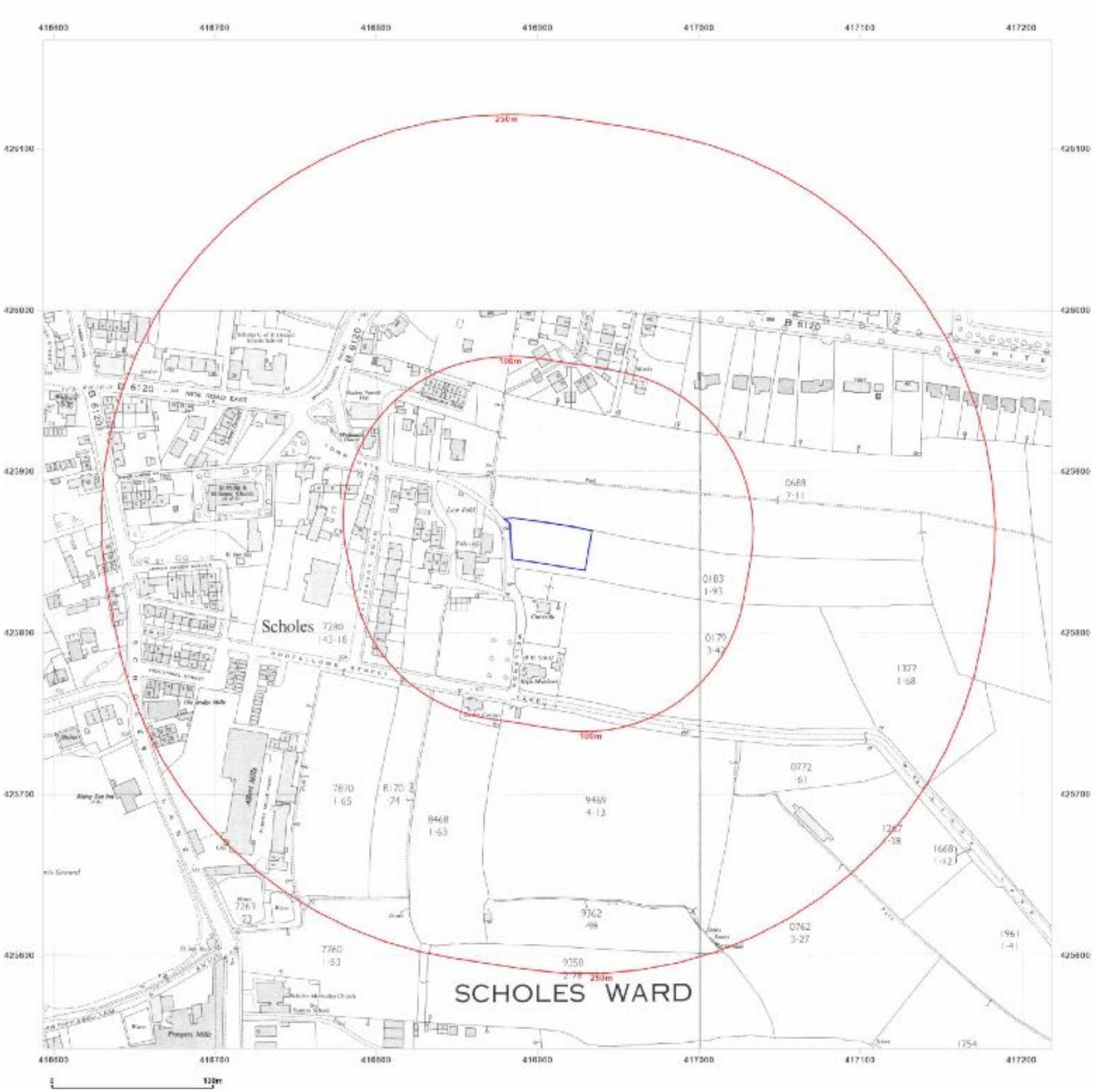
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **1969**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1967
Revised 1967
Edition N/A
Copyright 1969
Levelled N/A

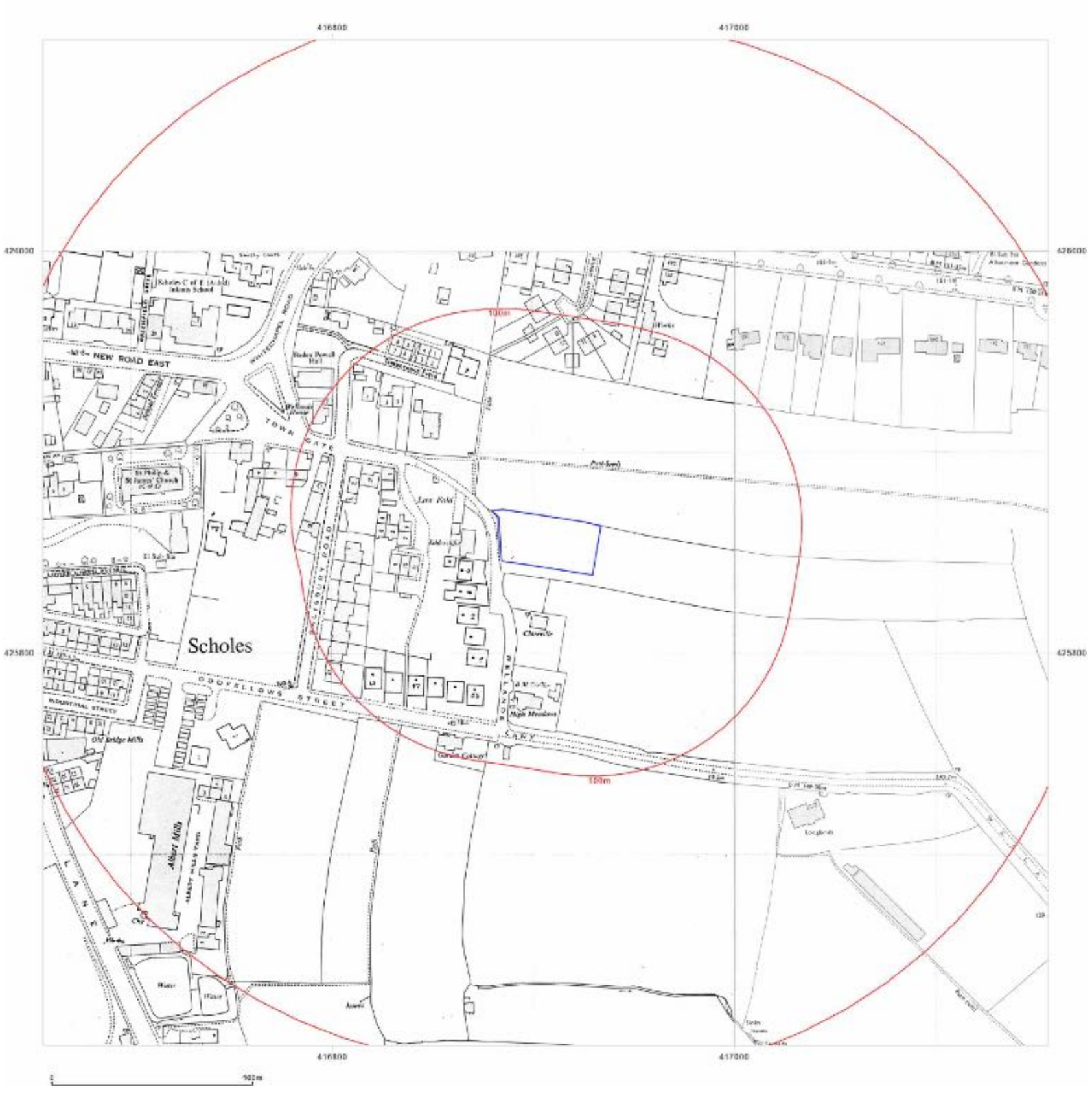
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Site Details:

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BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **1974-1979**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1979		Surveyed 1956
Revised 1979		Revised 1973
Edition N/A		Edition N/A
Copyright 1979		Copyright 1974
Levelled N/A		Levelled 1962

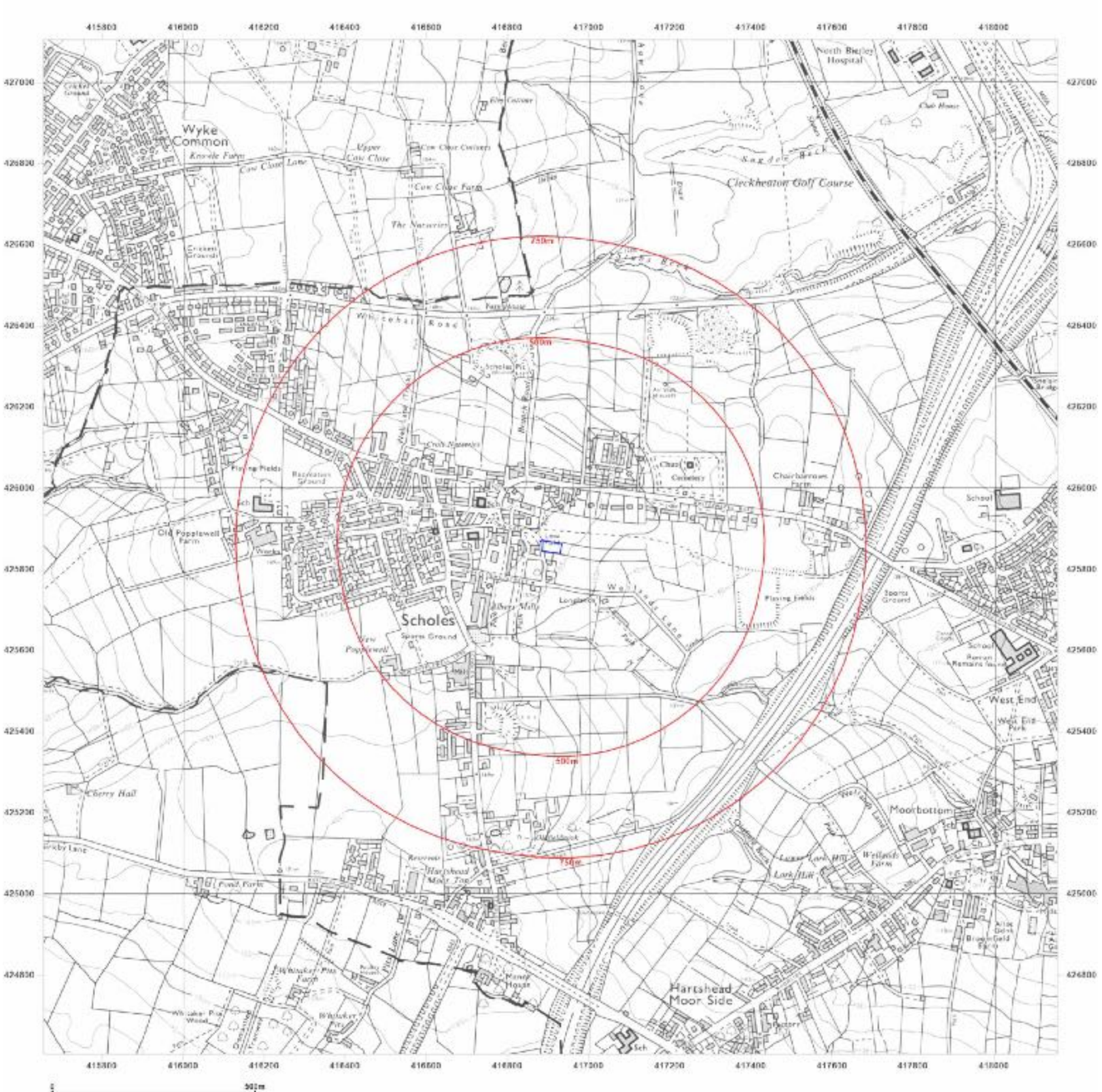
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Site Details:

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BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **1974-1975**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1973
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

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

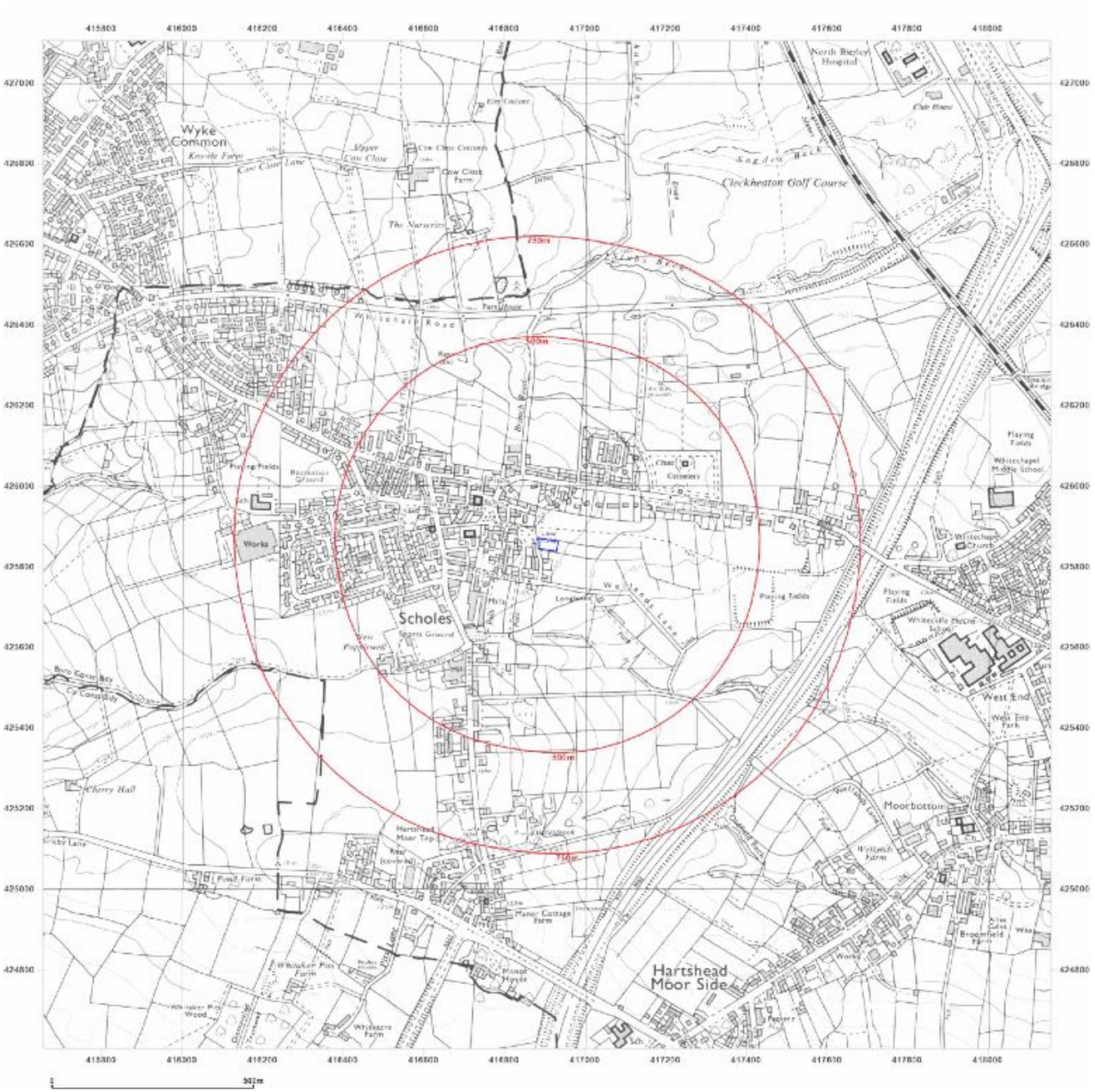
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **1983-1985**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1982
Revised 1983
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1985
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

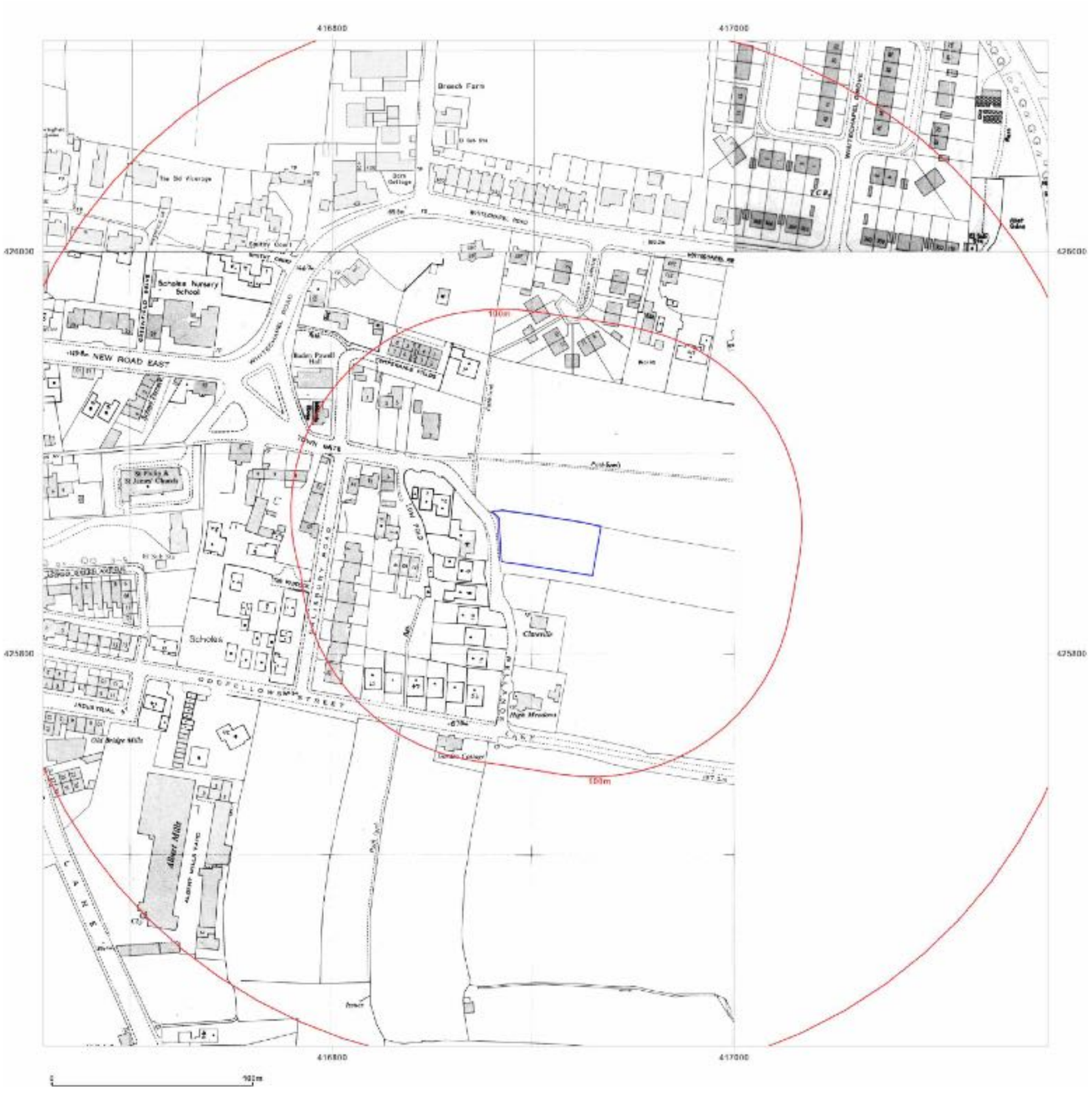
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Groundsure INSIGHTS

Site Details:

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SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **1985-1990**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1958
Revised 1984
Edition N/A
Copyright 1985
Levelled 1962

Surveyed 1962
Revised 1990
Edition N/A
Copyright 1990
Levelled 1962

Surveyed 1962
Revised 1987
Edition N/A
Copyright 1987
Levelled 1962

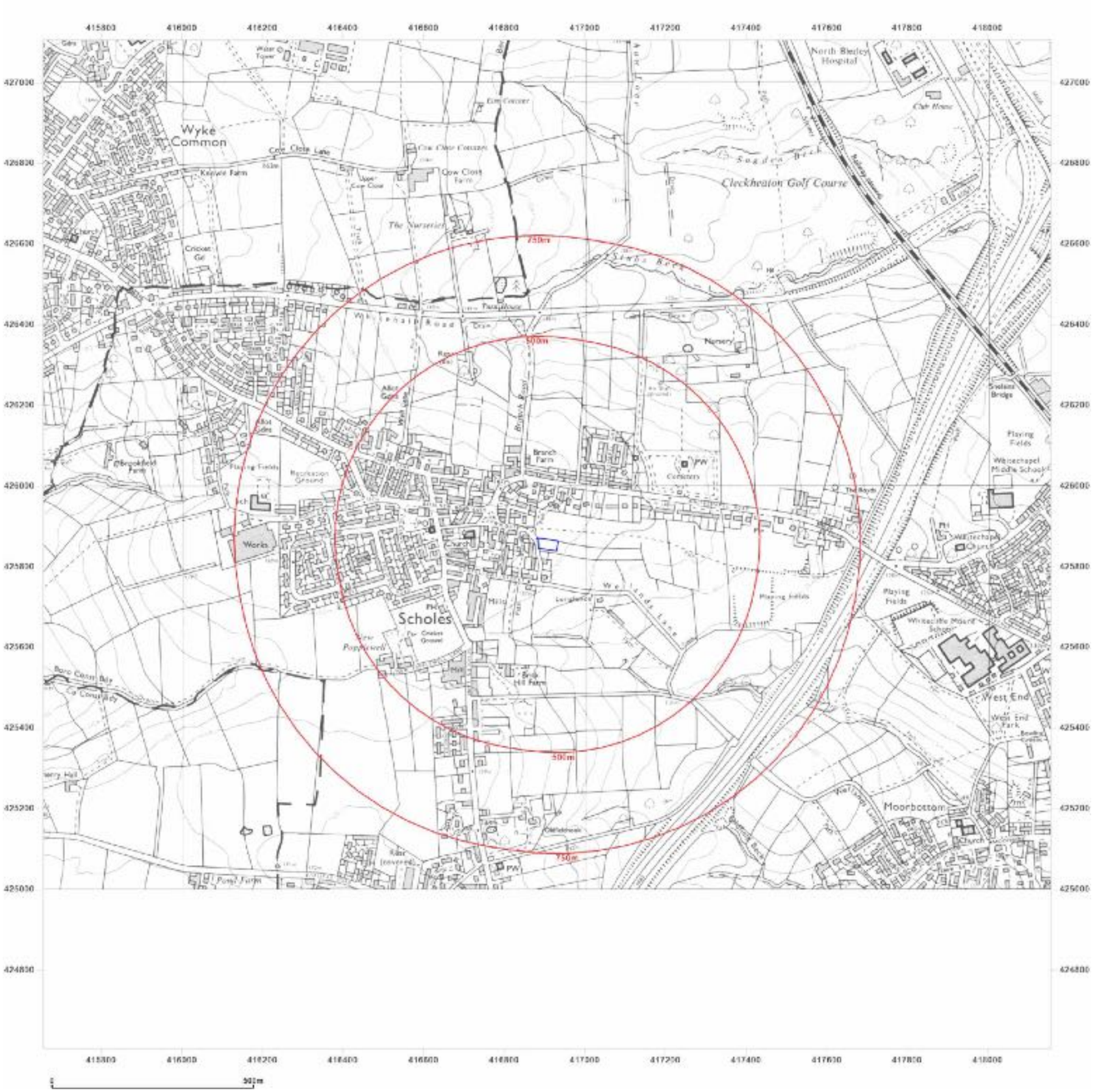
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Groundsure INSIGHTS

Site Details:

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BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **1990**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1987
Revised 1990
Edition N/A
Copyright N/A
Levelled N/A

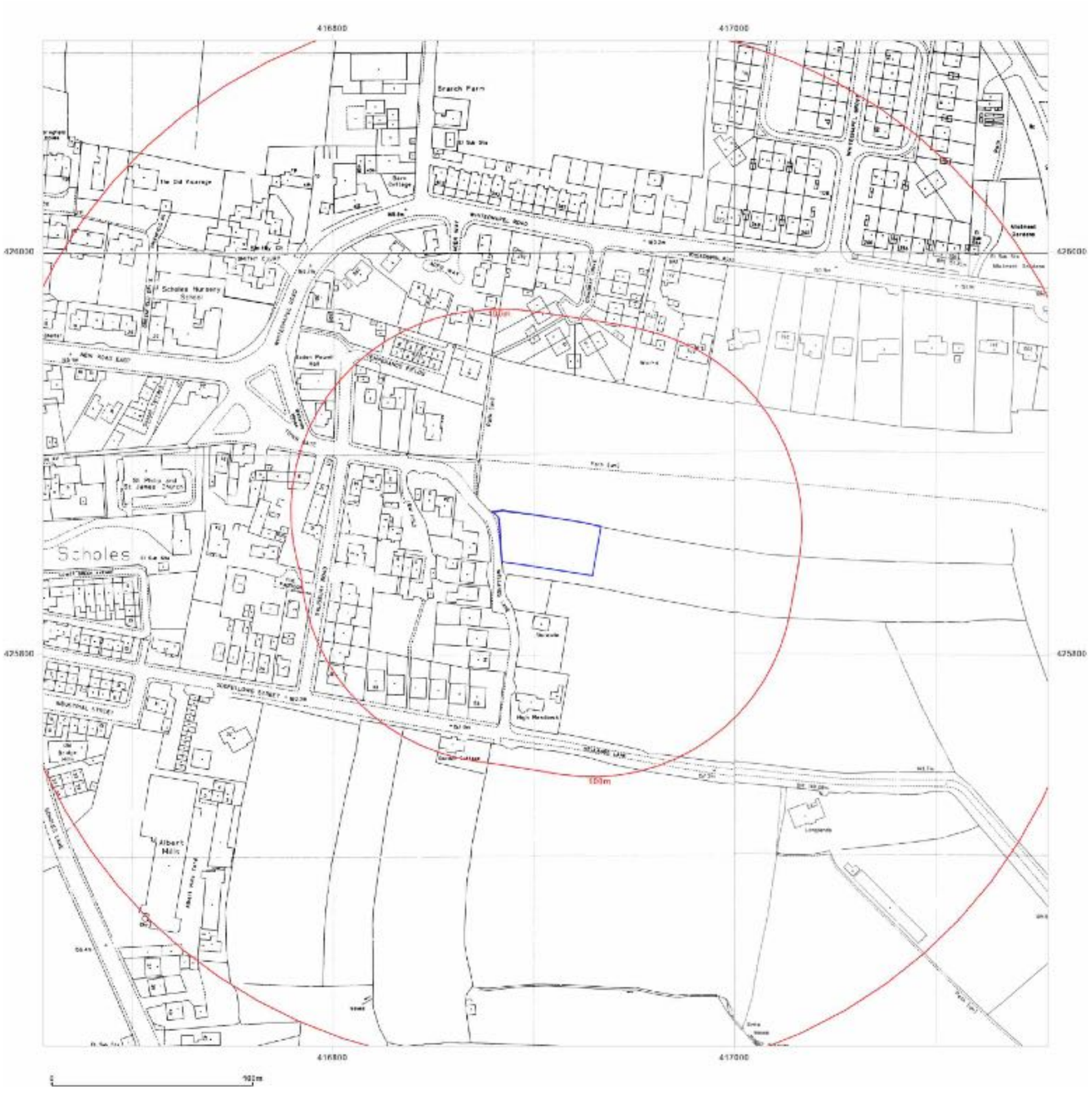
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
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BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid
Map date: **1992**
Scale: 1:1,250
Printed at: 1:2,000

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

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

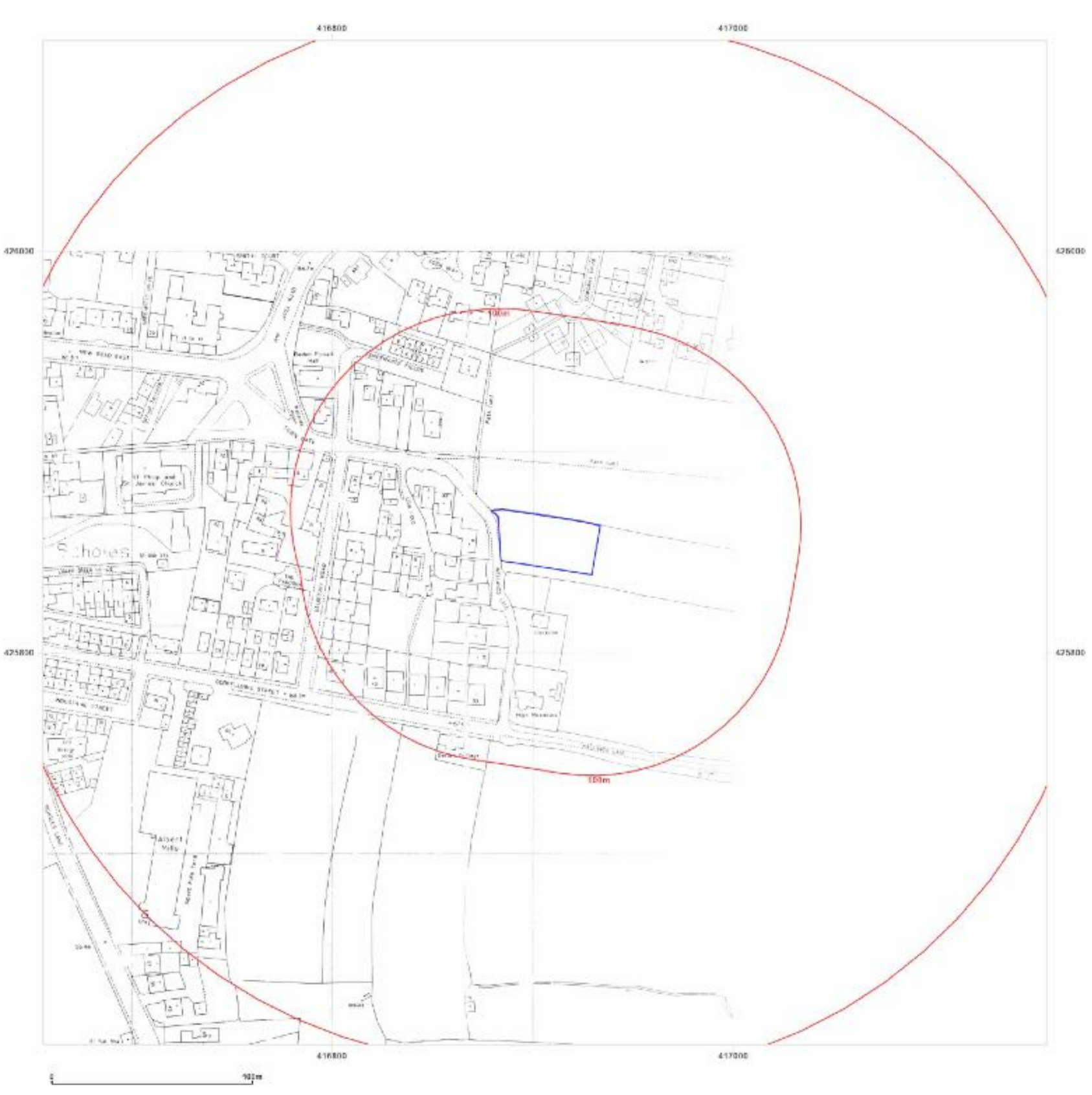
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Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **1994**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
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Edition N/A
Copyright 1994
Levelled N/A

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Site Details:

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SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

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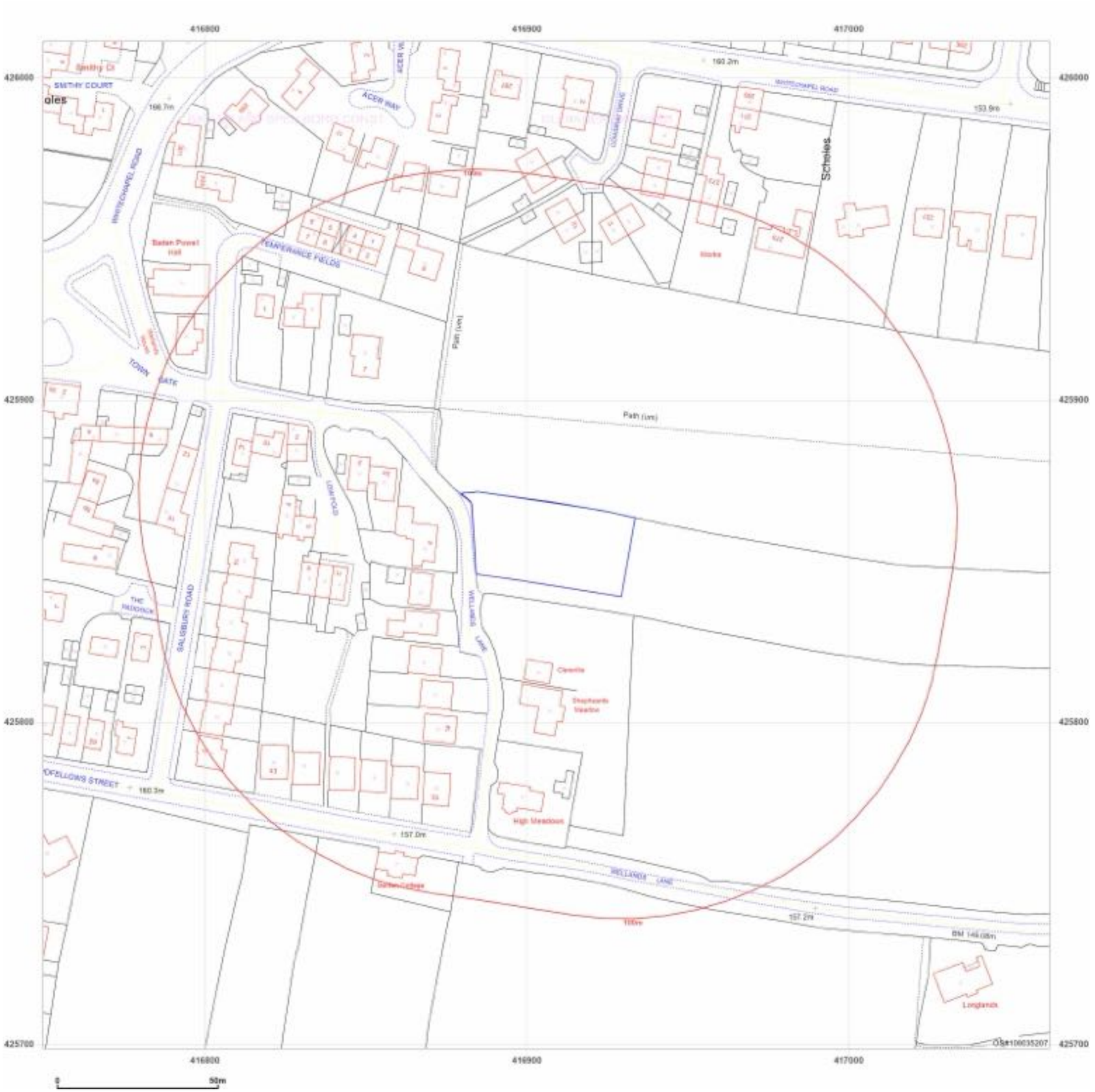
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Site Details:

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SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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Groundsure INSIGHTS

Site Details:

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SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **2010**

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Printed at: 1:10,000

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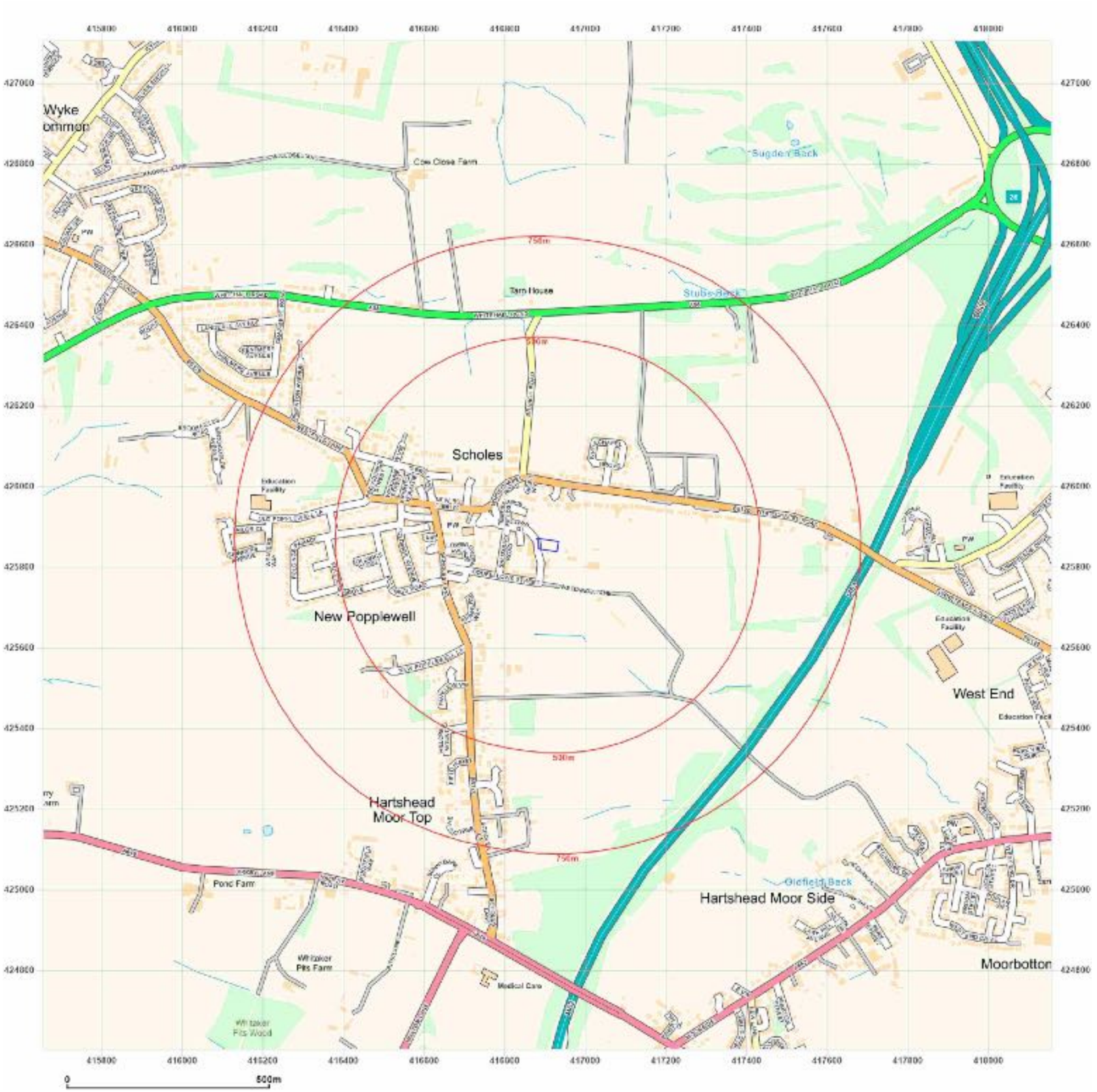
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Groundsure INSIGHTS

Site Details:

LAND OFF WELLANDS LANE,
SCHOLES, CLECKHEATON,
BD19 6EY

Client Ref: 25118/4500
Report Ref: GS-RMY-C54-K7P-9SW
Grid Ref: 416906, 425855

Map Name: National Grid

Map date: **2025**

Scale: 1:10,000

Printed at: 1:10,000

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APPENDIX C - COAL AUTHORITY CONSULTANTS MINING REPORT

The Coal Authority

Consultants

Coal Mining Report

Land Off Wellands Lane, Scholes,
Cleckheaton, Bd19 6ey
West Yorkshire

Date of enquiry:	**8 August 2025**
Date enquiry received:	**8 August 2025**
Issue date:	**8 August 2025**
Our reference:	**51003517229001**
Your reference:	**GS-2A9-CIN-K43-E8X**



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

Land Off Wellands Lane, Scholes, Cleckheaton,
Bd19 6ey
West Yorkshire



Approximate position of property

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How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	WHINMOOR	Coal	5U5Z	66	North-East	2.3	South-West	61	1898
unnamed	BLACK BED	Coal	5U8Z	139	Beneath Property	2.9	South-West	87	1878
unnamed	BETTER BED	Coal	6NHO	183	Beneath Property	2.4	South-East	46	1887

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

6965	LM48	M31
LM23	2982	M145
LM64	5060	2747

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

Distance to site investigation (m)	Direction
28.6	North

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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The Coal Authority

Summary of findings

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The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown

Geological faults

Site investigations



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www.groundstability.com

APPENDIX D - GROUNDSURE REPORT

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

LAND OFF WELLANDS LANE, SCHOLES, CLECKHEATON, BD19 6EY

Order Details

Date: 08/08/2025

Your ref: 25118/4500

Our Ref: GS-1NG-VES-98Z-O87

Site Details

Location: 416907 425855

Area: 0.13 ha

Authority: Kirklees Council ↗



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Summary of findings p. 2 >

Aerial image p. 9 >

OS MasterMap site plan p.14 >

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
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Certified B Corporation

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	14	70	-
19 >	1.2 >	Historical tanks >	0	0	0	6	-
19 >	1.3 >	Historical energy features >	0	0	5	5	-
20	1.4	Historical petrol stations	0	0	0	0	-
20 >	1.5 >	Historical garages >	0	0	0	3	-
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	23	96	-
27 >	2.2 >	Historical tanks >	0	0	0	9	-
27 >	2.3 >	Historical energy features >	0	0	12	19	-
29	2.4	Historical petrol stations	0	0	0	0	-
29 >	2.5 >	Historical garages >	0	0	0	4	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
30	3.1	Active or recent landfill	0	0	0	0	-
30 >	3.2 >	Historical landfill (BGS records) >	0	0	0	1	-
31	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
31 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	2	-
32 >	3.5 >	Historical waste sites >	0	0	0	3	-
32	3.6	Licensed waste sites	0	0	0	0	-
32 >	3.7 >	Waste exemptions >	0	0	1	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
34 >	4.1 >	Recent industrial land uses >	0	0	3	-	-
35	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
35	4.3	Current or recent petrol stations	0	0	0	0	-
35	4.4	Electricity cables	0	0	0	0	-
35	4.5	Gas pipelines	0	0	0	0	-

35	4.6	Sites determined as Contaminated Land	0	0	0	0	-
36	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
36	4.8	Regulated explosive sites	0	0	0	0	-
36	4.9	Hazardous substance storage/usage	0	0	0	0	-
36	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
36	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
37 >	**4.12 >**	**Licensed pollutant release (Part A(2)/B) >**	0	0	0	2	-
37	4.13	Radioactive Substance Authorisations	0	0	0	0	-
37 >	**4.14 >**	**Licensed Discharges to controlled waters >**	0	0	1	0	-
38	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
38	4.16	Pollutant release to public sewer	0	0	0	0	-
38	4.17	List 1 Dangerous Substances	0	0	0	0	-
38	4.18	List 2 Dangerous Substances	0	0	0	0	-
38 >	**4.19 >**	**Pollution Incidents (EA/NRW) >**	0	0	0	1	-
39	4.20	Pollution inventory substances	0	0	0	0	-
39	4.21	Pollution inventory waste transfers	0	0	0	0	-
39	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
40	5.1	Superficial aquifer	None (within 500m)				
41 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
42 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
43	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
43	5.5	Groundwater vulnerability- local information	None (within 0m)				
44 >	**5.6 >**	**Groundwater abstractions >**	0	0	0	0	8
46 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	1
47	5.8	Potable abstractions	0	0	0	0	0
47	5.9	Source Protection Zones	0	0	0	0	-
47	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m

48 >	6.1 >	Water Network (OS MasterMap) >	0	0	7	-	-
49 >	6.2 >	Surface water features >	0	0	2	-	-
49 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
50 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
50 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
51	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
51	7.2	Historical Flood Events	0	0	0	-	-
51	7.3	Flood Defences	0	0	0	-	-
52	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
52	7.5	Flood Storage Areas	0	0	0	-	-
53	7.6	Flood Zone 2	None (within 50m)				
53	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
54	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
55 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
56	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
57	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
57	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
57	10.4	Special Protection Areas (SPA)	0	0	0	0	0
57	10.5	National Nature Reserves (NNR)	0	0	0	0	0
58	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
58 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	2
58	10.8	Biosphere Reserves	0	0	0	0	0
58	10.9	Forest Parks	0	0	0	0	0
59	10.10	Marine Conservation Zones	0	0	0	0	0
59 >	10.11 >	Green Belt >	1	0	0	0	3

59	10.12	Proposed Ramsar sites	0	0	0	0	0
59	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
60	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
60	10.15	Nitrate Sensitive Areas	0	0	0	0	0
60 >	**10.16 >**	**Nitrate Vulnerable Zones >**	1	0	1	0	0
61 >	**10.17 >**	**SSSI Impact Risk Zones >**	1	-	-	-	-
62	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
63	11.1	World Heritage Sites	0	0	0	-	-
64	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
64	11.3	National Parks	0	0	0	-	-
64 >	**11.4 >**	**Listed Buildings >**	0	0	2	-	-
65 >	**11.5 >**	**Conservation Areas >**	0	0	1	-	-
65	11.6	Scheduled Ancient Monuments	0	0	0	-	-
65	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
66 >	**12.1 >**	**Agricultural Land Classification >**	Grade 3b (within 250m)				
67	12.2	Open Access Land	0	0	0	-	-
67	12.3	Tree Felling Licences	0	0	0	-	-
67	12.4	Environmental Stewardship Schemes	0	0	0	-	-
68 >	**12.5 >**	**Countryside Stewardship Schemes >**	0	0	1	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
69	13.1	Priority Habitat Inventory	0	0	0	-	-
69	13.2	Habitat Networks	0	0	0	-	-
69	13.3	Open Mosaic Habitat	0	0	0	-	-
69	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
70 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
71 >	**14.2 >**	**Artificial and made ground (10k) >**	0	0	0	6	-

73	14.3	Superficial geology (10k)	0	0	0	0	-
73	14.4	Landslip (10k)	0	0	0	0	-
74 >	14.5 >	Bedrock geology (10k) >	3	2	6	12	-
76 >	14.6 >	Bedrock faults and other linear features (10k) >	1	1	3	12	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
77 >	15.1 >	50k Availability >	Identified (within 500m)				
78 >	15.2 >	Artificial and made ground (50k) >	0	0	0	3	-
79	15.3	Artificial ground permeability (50k)	0	0	-	-	-
80	15.4	Superficial geology (50k)	0	0	0	0	-
80	15.5	Superficial permeability (50k)	None (within 50m)				
80	15.6	Landslip (50k)	0	0	0	0	-
80	15.7	Landslip permeability (50k)	None (within 50m)				
81 >	15.8 >	Bedrock geology (50k) >	3	2	6	12	-
83 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
83 >	15.10 >	Bedrock faults and other linear features (50k) >	1	1	3	10	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
85	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
86 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
88 >	17.2 >	Running sands >	Negligible (within 50m)				
89 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
90 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
91 >	17.5 >	Landslides >	Very low (within 50m)				
92 >	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
94 >	18.1 >	BritPits >	0	0	0	4	-
96 >	18.2 >	Surface ground workings >	0	0	16	-	-
96 >	18.3 >	Underground workings >	0	0	0	17	5
97	18.4	Underground mining extents	0	0	0	0	-

98	18.5	Historical Mineral Planning Areas	0	0	0	0	-
98 >	18.6 >	Non-coal mining >	0	0	0	3	3
99	18.7	JPB mining areas	None (within 0m)				
99	18.8	The Coal Authority non-coal mining	0	0	0	0	-
99	18.9	Researched mining	0	0	0	0	-
100	18.10	Mining record office plans	0	0	0	0	-
100	18.11	BGS mine plans	0	0	0	0	-
100 >	18.12 >	Coal mining >	Identified (within 0m)				
100	18.13	Brine areas	None (within 0m)				
101	18.14	Gypsum areas	None (within 0m)				
101	18.15	Tin mining	None (within 0m)				
101	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
102	19.1	Natural cavities	0	0	0	0	-
102	19.2	Mining cavities	0	0	0	0	0
102	19.3	Reported recent incidents	0	0	0	0	-
102	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
104 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
106 >	21.1 >	BGS Estimated Background Soil Chemistry >	3	2	-	-	-
106	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
107	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
108	22.1	Underground railways (London)	0	0	0	-	-
108	22.2	Underground railways (Non-London)	0	0	0	-	-
109	22.3	Railway tunnels	0	0	0	-	-
109 >	22.4 >	Historical railway and tunnel features >	0	0	2	-	-
109	22.5	Royal Mail tunnels	0	0	0	-	-

109	22.6	Historical railways	0	0	0	-	-
110	22.7	Railways	0	0	0	-	-
110	22.8	Crossrail 2	0	0	0	0	-
110	22.9	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 30/05/2021

Site Area: 0.13ha

Recent site history - 2018 aerial photograph



Capture Date: 02/07/2018

Site Area: 0.13ha

Recent site history - 2012 aerial photograph



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Capture Date: 26/03/2012

Site Area: 0.13ha

Recent site history - 2000 aerial photograph



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Capture Date: 05/08/2000

Site Area: 0.13ha

Recent site history - 1999 aerial photograph

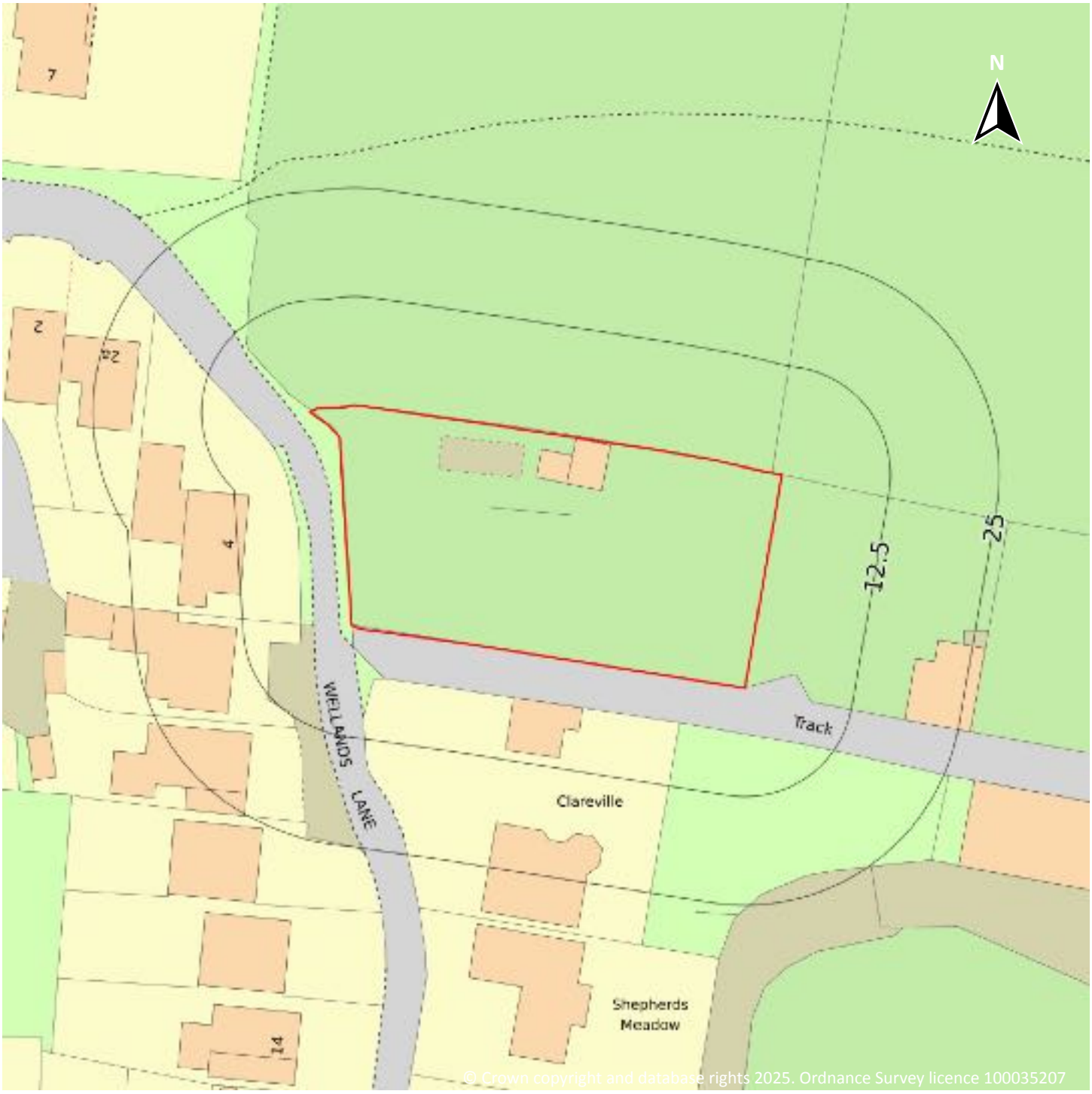


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Capture Date: 04/09/1999

Site Area: 0.13ha

OS MasterMap site plan



Site Area: 0.13ha

1 Past land use



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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	84

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
A	138m SW	Unspecified Mills	1967 - 1990	1520761

ID	Location	Land use	Dates present	Group ID
A	173m SW	Unspecified Mills	1892 - 1905	1542458
A	173m SW	Unspecified Mills	1948	1579179
A	174m SW	Unspecified Mills	1955	1552926
A	175m SW	Unspecified Mills	1938	1519770
3	211m NE	Tramway Sidings	1905	1505808
B	218m NE	Cuttings	1955	1556028
B	218m NE	Cuttings	1938	1557428
B	221m E	Cuttings	1948	1492864
A	240m SW	Unspecified Pit	1892	1452497
D	247m NE	Cemetery	1955 - 1990	1550055
4	248m NE	Cemetery	1905	1492532
D	248m NE	Cemetery	1938 - 1948	1530916
E	250m W	Unspecified Disused Mill	1948	1575578
E	251m W	Unspecified Disused Mill	1955	1544450
E	252m W	Unspecified Disused Mill	1938	1530348
F	285m N	Unspecified Disused Pit	1955	1570924
H	293m S	Brick Works	1892 - 1905	1572198
6	300m NW	Nurseries	1967 - 1974	1505433
I	309m SW	Unspecified Mills	1938	1553829
I	310m SW	Unspecified Mills	1967	1545049
I	310m SW	Unspecified Mill	1974	1561538
I	310m SW	Unspecified Mill	1983 - 1990	1569405
I	310m SW	Unspecified Mills	1948 - 1955	1527767
I	312m SW	Unspecified Mills	1892 - 1905	1563124
F	321m N	Unspecified Disused Pit	1948	1528842
F	321m N	Unspecified Pit	1892 - 1905	1572122
H	342m S	Railway Sidings	1905	1479879
F	342m N	Unspecified Disused Pit	1938	1494387

ID	Location	Land use	Dates present	Group ID
F	346m N	Unspecified Disused Pit	1967	1514136
H	352m SW	Unspecified Ground Workings	1892 - 1905	1564822
J	379m S	Clay Pit	1905	1453696
J	379m S	Unspecified Pit	1948	1496157
J	380m S	Unspecified Pit	1955	1551731
J	383m S	Unspecified Pit	1938	1545472
J	385m S	Gravel Pit	1948	1474417
J	385m S	Unspecified Heap	1967 - 1974	1518113
J	386m S	Unspecified Pit	1892	1503324
J	391m S	Refuse Heap	1905	1576346
F	393m N	Refuse Heap	1892	1435331
F	396m N	Refuse Heaps	1905	1560304
J	398m S	Refuse Heap	1955	1486271
K	399m SE	Disused Sewage Works	1955	1479534
K	399m SE	Sewage Works	1938	1549811
F	401m N	Refuse Heaps	1955	1557115
L	402m E	Disused Colliery	1938	1573920
J	403m S	Refuse Heaps	1892	1432573
L	403m E	Disused Colliery	1948	1527833
F	403m N	Unspecified Disused Pit	1974	1512260
L	403m E	Disused Colliery	1955	1527275
J	406m S	Refuse Heap	1938	1527374
7	413m N	Tramway Sidings	1892	1519402
F	418m N	Old Air Shaft	1938	1454169
F	419m N	Unspecified Heap	1955	1468329
F	420m N	Unspecified Disused Shafts	1967	1459604
F	424m N	Unspecified Old Shaft	1955	1446712
N	431m N	Unspecified Heap	1905	1548949

ID	Location	Land use	Dates present	Group ID
K	433m SE	Sewage Works	1948	1551980
F	433m N	Old Air Shaft	1955	1454168
F	433m N	Unspecified Old Shafts	1948	1469883
N	440m N	Unspecified Heap	1967	1510281
F	441m N	Refuse Heap	1967 - 1974	1499949
F	441m N	Unspecified Heap	1967	1468330
9	442m E	Unspecified Heap	1974 - 1990	1550778
F	444m N	Unspecified Old Shafts	1938 - 1948	1564365
L	451m E	Colliery	1905	1469133
L	458m E	Refuse Heaps	1948	1432584
L	461m E	Refuse Heap	1938	1527950
O	462m NE	Disused Air Shaft	1974 - 1990	1531219
L	462m E	Refuse Heap	1955	1519035
O	464m NE	Old Air Shaft	1938	1573217
O	464m NE	Unspecified Shaft	1905	1447747
O	464m NE	Old Air Shaft	1948 - 1955	1581192
O	469m NE	Small Pox Hospital	1905	1447295
P	471m W	Unspecified Pit	1905	1571007
P	472m W	Unspecified Quarry	1892	1465043
P	474m W	Unspecified Pit	1948	1527516
P	477m W	Unspecified Pit	1955	1520626
P	479m W	Unspecified Pit	1938	1578761
L	480m E	Unspecified Heap	1967	1511553
L	480m E	Unspecified Old Shafts	1938	1570141
J	496m S	Unspecified Old Shaft	1948	1490550
J	498m S	Unspecified Old Shaft	1955	1493789
12	499m NE	Refuse Heap	1938	1558277

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	6

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
A	252m SW	Unspecified Tank	1893 - 1907	254161
H	340m S	Unspecified Tank	1893	238641
I	357m SW	Unspecified Tank	1893	238640
I	393m SW	Unspecified Tank	1987 - 1996	247074
10	443m SE	Septic Tanks	1933	237000
J	500m S	Unspecified Tank	1907	259701

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	10

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
1	163m W	Electricity Substation	1967 - 1996	153574
2	180m N	Electricity Substation	1956 - 1985	145886
C	228m NE	Electricity Substation	1992	155651
C	228m NE	Electricity Substation	1974	160714
C	228m NE	Electricity Substation	1990	142151

ID	Location	Land use	Dates present	Group ID
G	291m W	Electricity Substation	1967 - 1979	158555
G	297m W	Electricity Substation	1987 - 1996	147408
5	298m SW	Electricity Substation	1956 - 1996	147231
8	416m NW	Gas Substation	1956 - 1957	161604
11	483m S	Electricity Substation	1975 - 1996	148909

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	3

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
M	427m NW	Garage	1957	47725
M	429m NW	Garage	1994	47229
M	430m NW	Garage	1956	47155

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	119

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
A	138m SW	Unspecified Mills	1990	1520761
A	138m SW	Unspecified Mills	1983	1520761
A	138m SW	Unspecified Mills	1974	1520761

ID	Location	Land Use	Date	Group ID
A	138m SW	Unspecified Mills	1967	1520761
A	173m SW	Unspecified Mills	1948	1579179
A	173m SW	Unspecified Mills	1905	1542458
A	174m SW	Unspecified Mills	1892	1542458
A	174m SW	Unspecified Mills	1955	1552926
A	175m SW	Unspecified Mills	1938	1519770
1	211m NE	Tramway Sidings	1905	1505808
D	218m NE	Cuttings	1955	1556028
D	218m NE	Cuttings	1938	1557428
D	221m E	Cuttings	1948	1492864
A	240m SW	Unspecified Pit	1892	1452497
F	247m NE	Cemetery	1955	1550055
F	247m NE	Cemetery	1990	1550055
F	247m NE	Cemetery	1983	1550055
F	247m NE	Cemetery	1974	1550055
F	247m NE	Cemetery	1967	1550055
2	248m NE	Cemetery	1905	1492532
F	248m NE	Cemetery	1948	1530916
F	248m NE	Cemetery	1938	1530916
G	250m W	Unspecified Disused Mill	1948	1575578
G	251m W	Unspecified Disused Mill	1955	1544450
G	252m W	Unspecified Disused Mill	1938	1530348
H	285m N	Unspecified Disused Pit	1955	1570924
J	293m S	Brick Works	1905	1572198
J	293m S	Brick Works	1892	1572198
L	300m NW	Nurseries	1974	1505433
L	300m NW	Nurseries	1967	1505433
M	309m SW	Unspecified Mills	1938	1553829

ID	Location	Land Use	Date	Group ID
M	310m SW	Unspecified Mill	1990	1569405
M	310m SW	Unspecified Mill	1983	1569405
M	310m SW	Unspecified Mill	1974	1561538
M	310m SW	Unspecified Mills	1967	1545049
M	310m SW	Unspecified Mills	1955	1527767
M	312m SW	Unspecified Mills	1948	1527767
M	312m SW	Unspecified Mills	1905	1563124
M	312m SW	Unspecified Mills	1892	1563124
H	321m N	Unspecified Disused Pit	1948	1528842
H	321m N	Unspecified Pit	1905	1572122
H	321m N	Unspecified Pit	1892	1572122
J	342m S	Railway Sidings	1905	1479879
H	342m N	Unspecified Disused Pit	1938	1494387
H	342m N	Unspecified Disused Pit	1938	1494387
H	346m N	Unspecified Disused Pit	1967	1514136
J	352m SW	Unspecified Ground Workings	1905	1564822
J	352m SW	Unspecified Ground Workings	1892	1564822
N	379m S	Clay Pit	1905	1453696
N	379m S	Unspecified Pit	1948	1496157
N	380m S	Unspecified Pit	1955	1551731
N	383m S	Unspecified Pit	1938	1545472
N	383m S	Unspecified Pit	1938	1545472
N	385m S	Gravel Pit	1948	1474417
N	385m S	Unspecified Heap	1974	1518113
N	385m S	Unspecified Heap	1967	1518113
N	386m S	Unspecified Pit	1892	1503324
N	387m S	Unspecified Pit	1892	1503324
N	391m S	Refuse Heap	1905	1576346

ID	Location	Land Use	Date	Group ID
H	393m N	Refuse Heap	1892	1435331
H	396m N	Refuse Heaps	1905	1560304
N	398m S	Refuse Heap	1955	1486271
O	399m SE	Disused Sewage Works	1955	1479534
O	399m SE	Sewage Works	1938	1549811
O	399m SE	Sewage Works	1938	1549811
H	401m N	Refuse Heaps	1955	1557115
P	402m E	Disused Colliery	1938	1573920
P	402m E	Disused Colliery	1938	1573920
N	403m S	Refuse Heaps	1892	1432573
P	403m E	Disused Colliery	1948	1527833
H	403m N	Unspecified Disused Pit	1974	1512260
P	403m E	Disused Colliery	1955	1527275
N	406m S	Refuse Heap	1938	1527374
N	406m S	Refuse Heap	1938	1527374
3	413m N	Tramway Sidings	1892	1519402
H	418m N	Old Air Shaft	1938	1454169
H	419m N	Unspecified Heap	1955	1468329
H	420m N	Unspecified Disused Shafts	1967	1459604
H	424m N	Unspecified Old Shaft	1955	1446712
S	431m N	Unspecified Heap	1905	1548949
O	433m SE	Sewage Works	1948	1551980
H	433m N	Old Air Shaft	1955	1454168
H	433m N	Unspecified Old Shafts	1948	1469883
S	440m N	Unspecified Heap	1967	1510281
H	441m N	Refuse Heap	1974	1499949
H	441m N	Refuse Heap	1967	1499949
H	441m N	Unspecified Heap	1967	1468330

ID	Location	Land Use	Date	Group ID
T	442m E	Unspecified Heap	1990	1550778
T	442m E	Unspecified Heap	1983	1550778
T	442m E	Unspecified Heap	1974	1550778
H	444m N	Unspecified Old Shafts	1938	1564365
H	444m N	Unspecified Old Shafts	1938	1564365
H	444m N	Unspecified Old Shafts	1948	1564365
P	451m E	Colliery	1905	1469133
P	458m E	Refuse Heaps	1948	1432584
P	461m E	Refuse Heap	1938	1527950
P	461m E	Refuse Heap	1938	1527950
U	462m NE	Disused Air Shaft	1990	1531219
U	462m NE	Disused Air Shaft	1983	1531219
U	462m NE	Disused Air Shaft	1974	1531219
P	462m E	Refuse Heap	1955	1519035
U	464m NE	Old Air Shaft	1938	1573217
U	464m NE	Old Air Shaft	1948	1581192
U	464m NE	Unspecified Shaft	1905	1447747
U	466m NE	Old Air Shaft	1955	1581192
U	469m NE	Small Pox Hospital	1905	1447295
V	471m W	Unspecified Pit	1905	1571007
V	472m W	Unspecified Quarry	1892	1465043
V	474m W	Unspecified Pit	1948	1527516
V	477m W	Unspecified Pit	1955	1520626
V	479m W	Unspecified Pit	1938	1578761
V	479m W	Unspecified Pit	1938	1578761
P	480m E	Unspecified Heap	1967	1511553
P	480m E	Unspecified Old Shafts	1938	1570141
P	480m E	Unspecified Old Shafts	1938	1570141

ID	Location	Land Use	Date	Group ID
N	496m S	Unspecified Old Shaft	1948	1490550
N	498m S	Unspecified Old Shaft	1955	1493789
X	499m NE	Refuse Heap	1938	1558277
X	499m NE	Refuse Heap	1938	1558277

This data is sourced from Ordnance Survey / Groundsure.

2.2 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. 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	252m SW	Unspecified Tank	1893	254161
A	252m SW	Unspecified Tank	1907	254161
J	340m S	Unspecified Tank	1893	238641
M	357m SW	Unspecified Tank	1893	238640
M	393m SW	Unspecified Tank	1996	247074
M	393m SW	Unspecified Tank	1994	247074
M	393m SW	Unspecified Tank	1987	247074
4	443m SE	Septic Tanks	1933	237000
N	500m S	Unspecified Tank	1907	259701

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**31**

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
B	163m W	Electricity Substation	1967	153574
B	163m W	Electricity Substation	1996	153574
B	163m W	Electricity Substation	1994	153574
B	164m W	Electricity Substation	1969	153574
B	164m W	Electricity Substation	1979	153574
B	164m W	Electricity Substation	1987	153574
C	180m N	Electricity Substation	1957	145886
C	181m N	Electricity Substation	1956	145886
C	181m N	Electricity Substation	1985	145886
E	228m NE	Electricity Substation	1992	155651
E	228m NE	Electricity Substation	1974	160714
E	228m NE	Electricity Substation	1990	142151
I	291m W	Electricity Substation	1967	158555
I	291m W	Electricity Substation	1979	158555
I	291m W	Electricity Substation	1969	158555
I	297m W	Electricity Substation	1996	147408
I	297m W	Electricity Substation	1994	147408
I	297m W	Electricity Substation	1987	147408
K	298m SW	Electricity Substation	1957	147231
K	298m SW	Electricity Substation	1967	147231
K	298m SW	Electricity Substation	1956	147231
K	298m SW	Electricity Substation	1969	147231
K	299m SW	Electricity Substation	1996	147231
K	299m SW	Electricity Substation	1994	147231
K	299m SW	Electricity Substation	1979	147231
K	299m SW	Electricity Substation	1987	147231
Q	416m NW	Gas Substation	1957	161604

ID	Location	Land Use	Date	Group ID
Q	416m NW	Gas Substation	1956	161604
W	483m S	Electricity Substation	1975	148909
W	484m S	Electricity Substation	1987	148909
W	485m S	Electricity Substation	1996	148909

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**0**

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	**4**

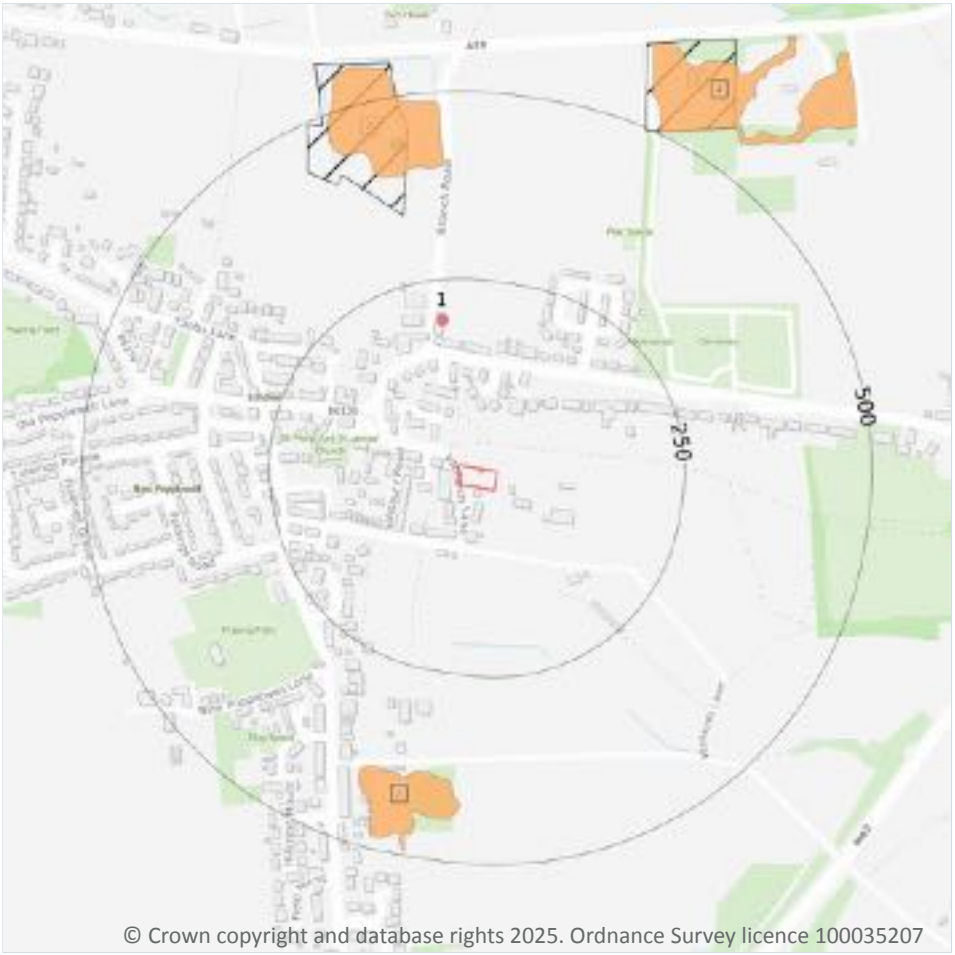
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land Use	Date	Group ID
R	427m NW	Garage	1957	47725
R	429m NW	Garage	1994	47229
R	429m NW	Garage	1994	47229
R	430m NW	Garage	1956	47155

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical landfill (BGS)

Historical waste sites

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	1

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.

Features are displayed on the Waste and landfill map on **page 30 >**

ID	Location	Address	BGS Number	Risk	Waste Type
A	436m N	Top Tip, Whitehall Rd, Wyke nr Bradford	1099	No risk to aquifer	N/A

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	**2**

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.

Features are displayed on the Waste and landfill map on **page 30 >**

ID	Location	Details		
A	342m N	Site Address: Top Tip, Whitehall Road, Wyke, Near Bradford, West Yorkshire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Midland Yorkshire Tar Distillers Limited Licence Holder: - First Recorded 31/12/1936 Last Recorded: -
3	496m NE	Site Address: Low Tip, Whitehall Road, Wyke, Near Bradford, West Yorkshire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Midland Yorkshire Tar Distillers Limited Licence Holder: - First Recorded 31/12/1927 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	3

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

Features are displayed on the Waste and landfill map on **page 30 >**

ID	Location	Address	Further Details	Date
2	384m S	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933
A	395m N	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933
4	500m NE	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933

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	1

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 30 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	196m N	2, Branch Road, Scholes, Cleckheaton, Bd19 6jb	WEX379523	Using waste exemption	On a farm	Use of waste in construction

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

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

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 34 >**

ID	Location	Company	Address	Activity	Category
1	177m W	Electricity Sub Station	West Yorkshire, BD19	Electrical Features	Infrastructure and Facilities
2	189m N	Electricity Sub Station	West Yorkshire, BD19	Electrical Features	Infrastructure and Facilities
4	237m NE	Electricity Sub Station	West Yorkshire, BD19	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 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 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.

4.7 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.

4.8 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.

4.9 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.

4.10 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.

4.11 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.

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

Records within 500m	2

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

Features are displayed on the Current industrial land use map on **page 34 >**

ID	Location	Address	Details	
A	462m SW	R S Services, Unit 10 Excelsior Works, Bradford Rd, Birtstall, WF17 9JZ	Process: Waste Oil Burner 0.4 MW Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	462m SW	Range Storage & Materials, Albert Mills, Scholes, Cleckheaton, BD19 6NN	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.13 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.

4.14 Licensed Discharges to controlled waters

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 34 >**

ID	Location	Address	Details	
3	212m S	SCHOLES LANE - SCHOLES, CLECKHEATON, KIRKLEES, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: YWUCD2/23 Permit Version: 1 Receiving Water: TRIB OF BLACUP BECK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 12/11/1997 Effective Date: 12/11/1997 Revocation Date: -

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

4.15 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.

4.16 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.

4.17 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.

4.18 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.

4.19 Pollution Incidents (EA/NRW)

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 34 >**

ID	Location	Details	
5	321m S	Incident Date: 19/04/2002 Incident Identification: 72978 Pollutant: Oils and Fuel Pollutant Description: Cutting Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.20 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.

4.21 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.

4.22 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

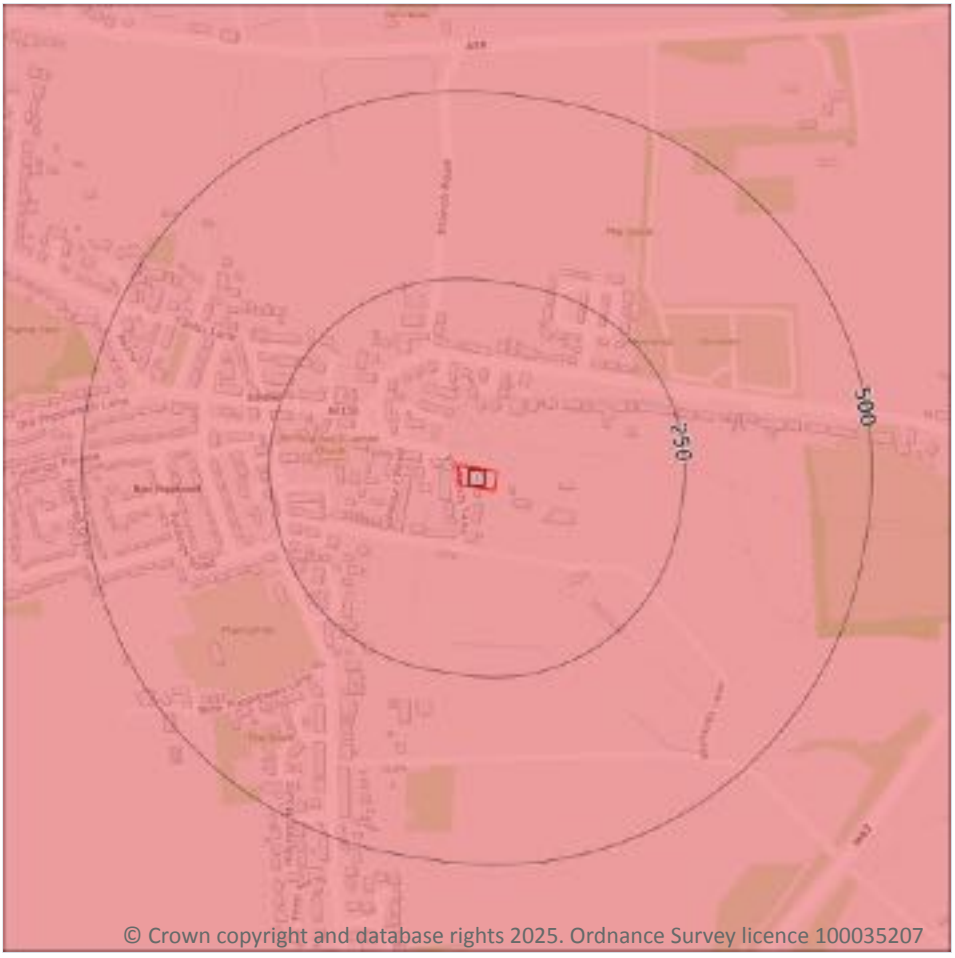
5.1 Superficial aquifer

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 41 >**

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



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 42 >**

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: 3-10m 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



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Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	8

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 44 >**

ID	Location	Details	
-	1278m NE	Status: Historical Licence No: 2/27/13/187 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417900 Northing: 426700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/03/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 10/03/1997 Version End Date: -
-	1278m NE	Status: Historical Licence No: 2/27/13/187 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417900 Northing: 426700	Annual Volume (m^3): 13500 Max Daily Volume (m^3): 168 Original Application No: - Original Start Date: 10/03/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 10/03/1997 Version End Date: -
-	1278m NE	Status: Historical Licence No: 2/27/13/221 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417900 Northing: 426700	Annual Volume (m^3): 6750 Max Daily Volume (m^3): 168 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/01/2007 Version End Date: -
-	1278m NE	Status: Active Licence No: 2/27/13/221/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417901 Northing: 426699	Annual Volume (m^3): 6750 Max Daily Volume (m^3): 168 Original Application No: NPS/WR/016684 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1278m NE	Status: Historical Licence No: 2/27/13/221 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417901 Northing: 426699	Annual Volume (m^3): 6750 Max Daily Volume (m^3): 168 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/01/2007 Version End Date: -

ID	Location	Details	
-	1407m E	Status: Historical Licence No: 2/27/13/022 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: METROTECT LIMITED Easting: 418300 Northing: 426200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 21/10/1996 Version End Date: -
-	1407m E	Status: Historical Licence No: 2/27/13/022 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: METROTECT LTD Easting: 418300 Northing: 426200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 21/10/1996 Version End Date: -
-	1556m S	Status: Historical Licence No: 2/27/13/197 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLIFTON BRIGHOUSE Data Type: Point Name: NEWSMITH STAINLESS LIMITED Easting: 416700 Northing: 424300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/09/1995 Expiry Date: 31/10/2002 Issue No: 100 Version Start Date: 27/05/1998 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**1**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 44 >**

ID	Location	Details	
-	1962m W	Status: Historical Licence No: 2/27/12/073 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: SURFACE WATER Point: CLIFTON BECK AND UNNAMED TRIBUTARY Data Type: Point Name: INTERFACE EUROPE LTD Easting: 415000 Northing: 425300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 03/01/1999 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**0**

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

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

5.9 Source Protection Zones

Records within 500m	**0**

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	**0**

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	7

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

Features are displayed on the Hydrology map on **page 48 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	205m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
C	212m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
D	218m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	219m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	226m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	236m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	241m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	2

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

Features are displayed on the Hydrology map on **page 48 >**

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 48 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River**	**Spen Beck from Source to River Calder**	**GB104027062710**	**Calder Lower**	**Aire and Calder**

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

6.4 WFD Surface water bodies

Records identified	**1**

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

Features are displayed on the Hydrology map on **page 48 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	988m N	River	Spen Beck from Source to River Calder	GB104027062710 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	**1**

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

Features are displayed on the Hydrology map on **page 48 >**

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

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding

8.1 Surface water flooding

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

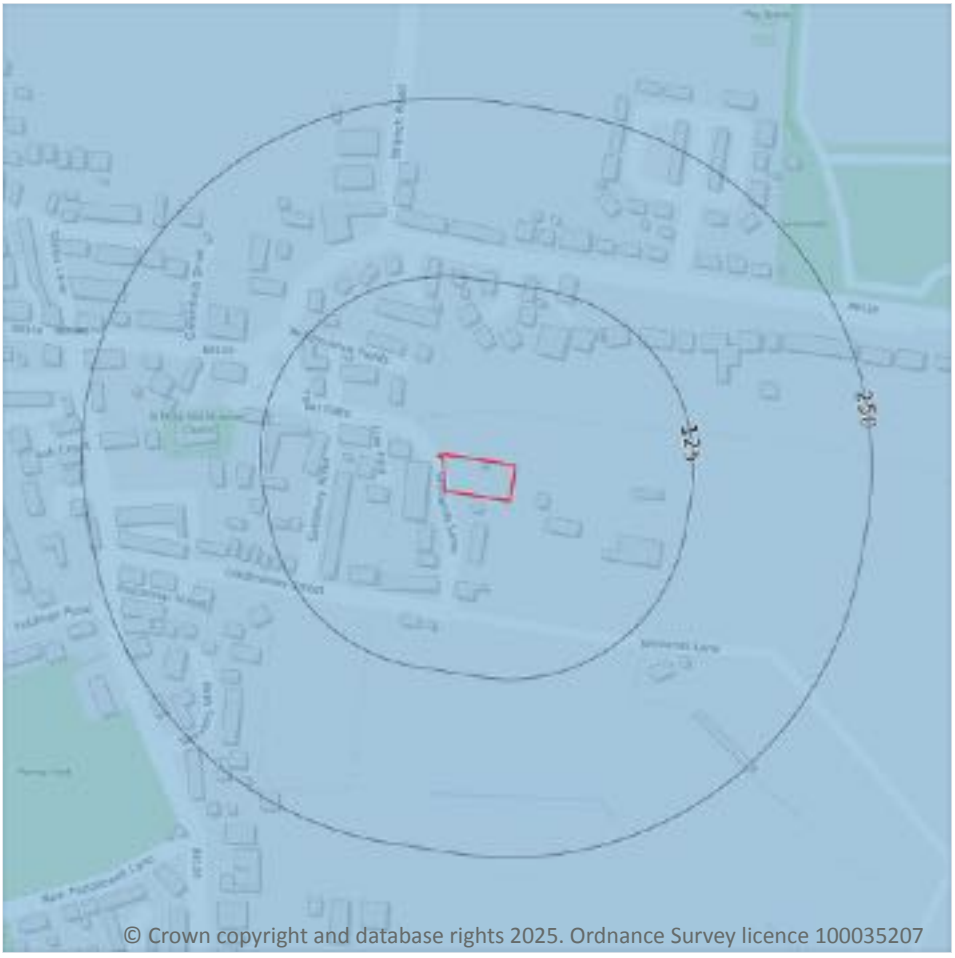
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year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

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

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

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

Features are displayed on the Groundwater flooding map on **page 55 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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Site Outline

Search buffers in metres (m)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 56 >**

ID	Location	Name	Woodland Type
-	1825m NE	Unknown	Ancient & Semi-Natural Woodland
-	1955m NE	Great And Little Hunsworth Woods	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	4

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

Features are displayed on the Environmental designations map on **page 56 >**

ID	Location	Name	Local Authority name
1	**On site**	**South and West Yorkshire Green Belt**	**Kirklees**
2	602m N	South and West Yorkshire Green Belt	Bradford
3	623m SW	South and West Yorkshire Green Belt	Calderdale
4	1151m W	South and West Yorkshire Green Belt	Bradford

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

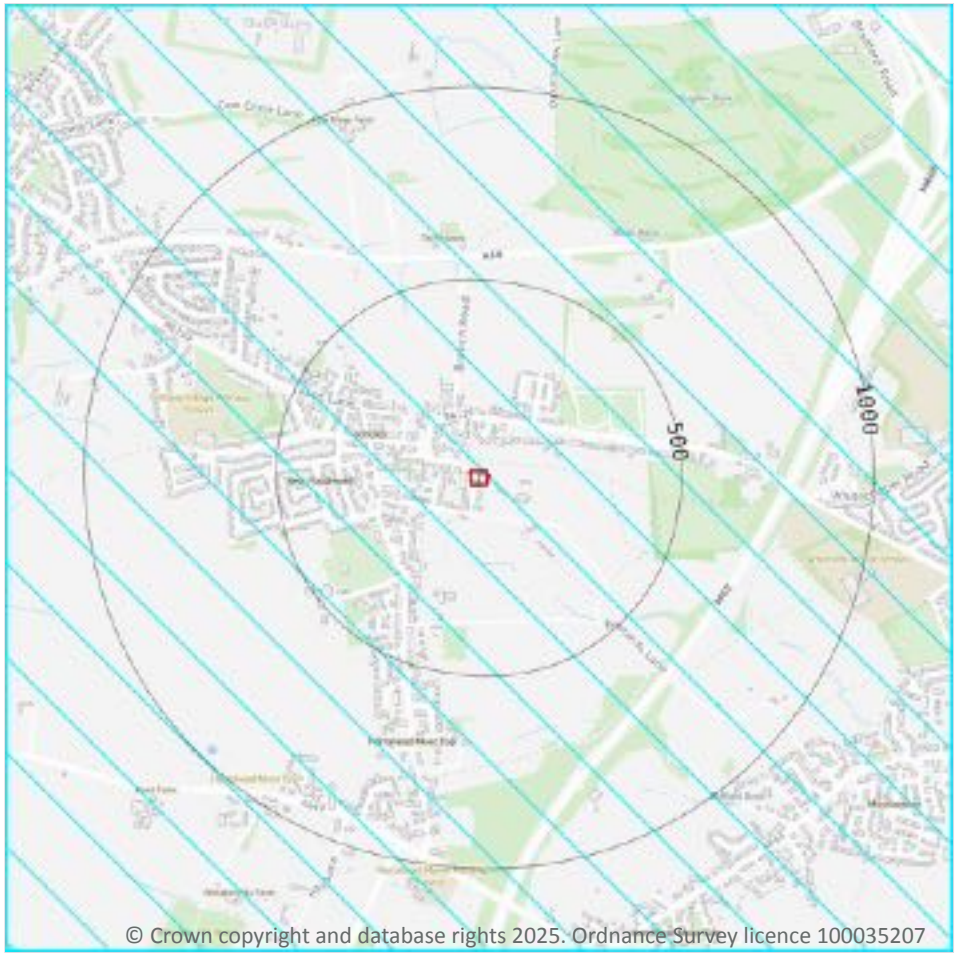
Records within 2000m	2

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

Location	Name	Type	NVZ ID	Status
On site	**Spen Beck from Source to River Calder NVZ**	**Surface Water**	**271**	**Existing**
110m N	Spen Beck from Source to River Calder NVZ	Surface Water	271	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 61 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0000000000000&notes=&location=417554,424273%20(IRZ%20polygon%20centre)**

This data is sourced from Natural England.

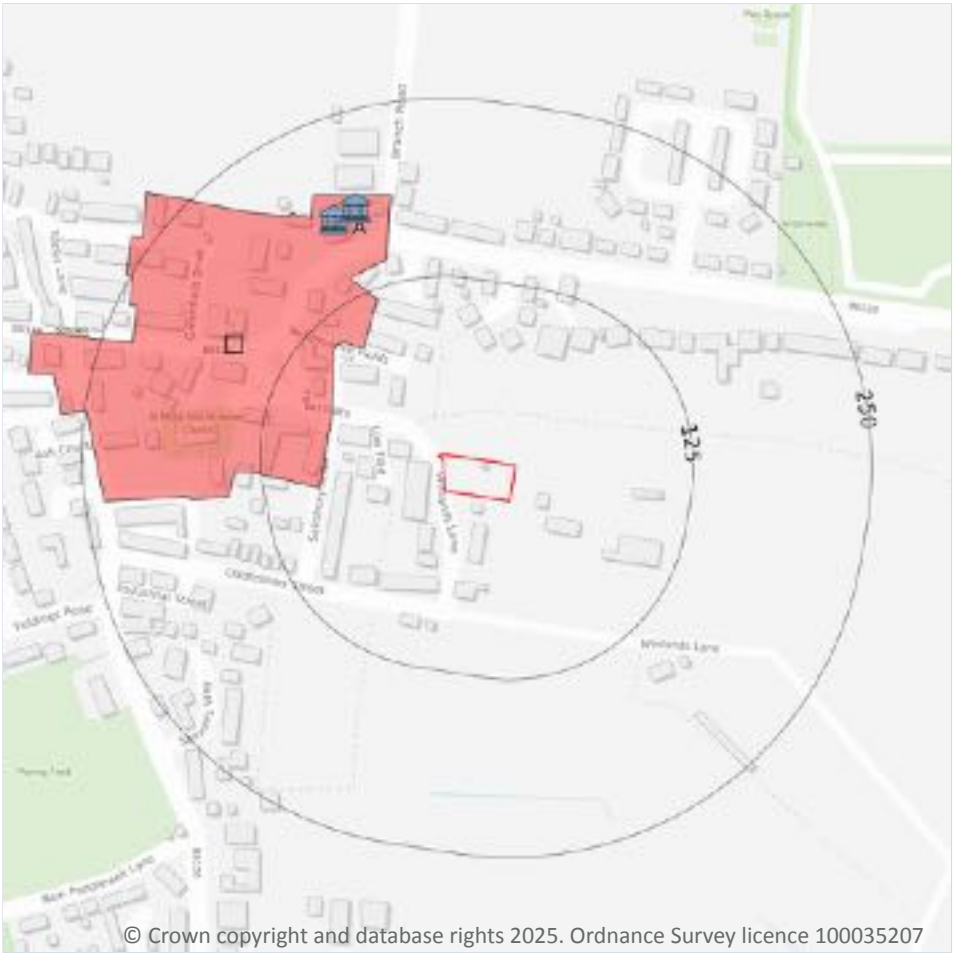
10.18 SSSI Units

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



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	2

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 63 >**

ID	Location	Name	Grade	Reference Number	Listed date
A	182m NW	414 And 414a, Whitechapel Road	II	1300029	13/01/1984
A	184m N	Nos. 406, 408 And Barn Cottage, Whitechapel Road	II	1313304	13/01/1984

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 63 >**

ID	Location	Name	District	Date of designation
1	78m W	Scholes	Kirklees	31/03/1981

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.

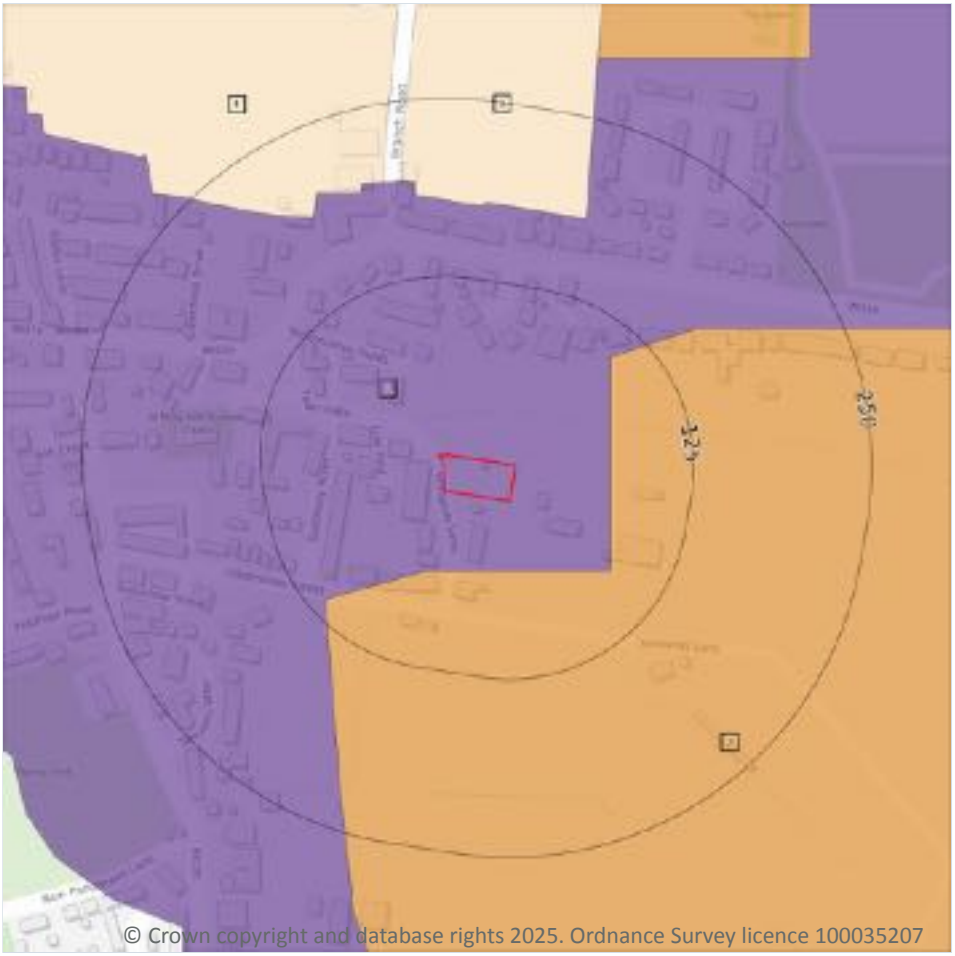
11.7 Registered Parks and Gardens

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	4

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 66 >**

ID	Location	Classification	Description
1	**On site**	**Urban**	**Non-agricultural/no quality assigned**
2	49m S	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

ID	Location	Classification	Description
3	176m N	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
4	189m NW	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

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	**1**

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.

Location	Reference	Scheme	Start Date	End Date
89m S	1512581	Countryside Stewardship (Middle Tier)	01/01/2024	31/12/2028

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0

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

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

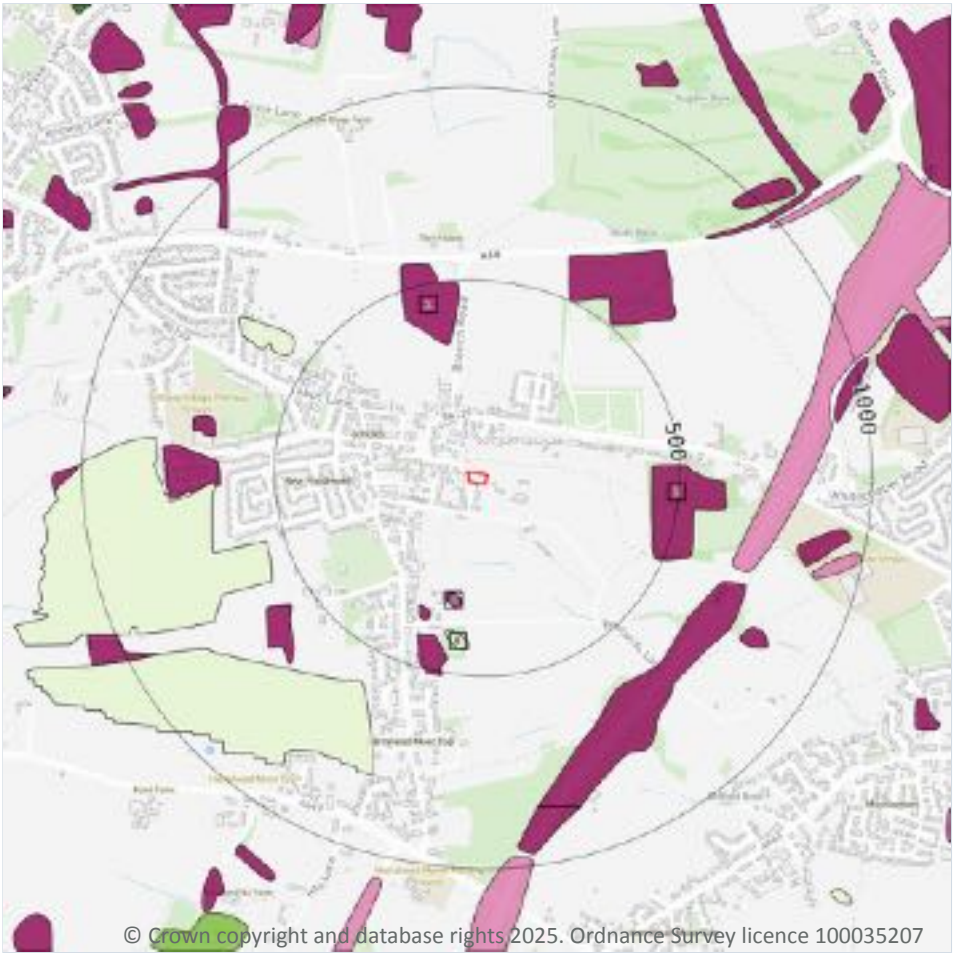
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 70 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE12NE**

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 71 >**

ID	Location	LEX Code	Description	Rock description
A	292m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
1	336m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	344m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	388m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
B	410m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	427m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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.

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 **23**

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 74 >**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
3	On site	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
5	34m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
6	43m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
8	79m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
9	139m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
10	179m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
12	186m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
13	189m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
16	235m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
17	251m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
18	279m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
21	299m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
28	390m N	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
29	393m SE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
30	403m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
32	437m S	FHR-SDST	Falhouse Rock - Sandstone	Langsettian Sub-age
33	448m W	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
35	455m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
37	465m N	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
38	468m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
39	480m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	17

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 74 >**

ID	Location	Category	Description
4	**On site**	**FAULT**	**Normal fault, inferred**
7	46m E	ROCK	Coal seam, inferred
11	179m E	FAULT	Normal fault, inferred
14	191m E	ROCK	Coal seam, inferred
15	195m NE	ROCK	Coal seam, inferred
19	279m NW	FAULT	Normal fault, inferred
20	293m N	ROCK	Coal seam, inferred
22	302m SW	ROCK	Coal seam, inferred
23	321m S	FAULT	Normal fault, inferred
24	328m N	ROCK	Coal seam, inferred
25	364m NE	ROCK	Coal seam, inferred
26	366m N	ROCK	Coal seam, inferred
27	388m S	ROCK	Coal seam, inferred
31	404m N	ROCK	Coal seam, inferred
34	448m W	FAULT	Normal fault, inferred
36	460m S	ROCK	Coal seam, inferred
40	488m SE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



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Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

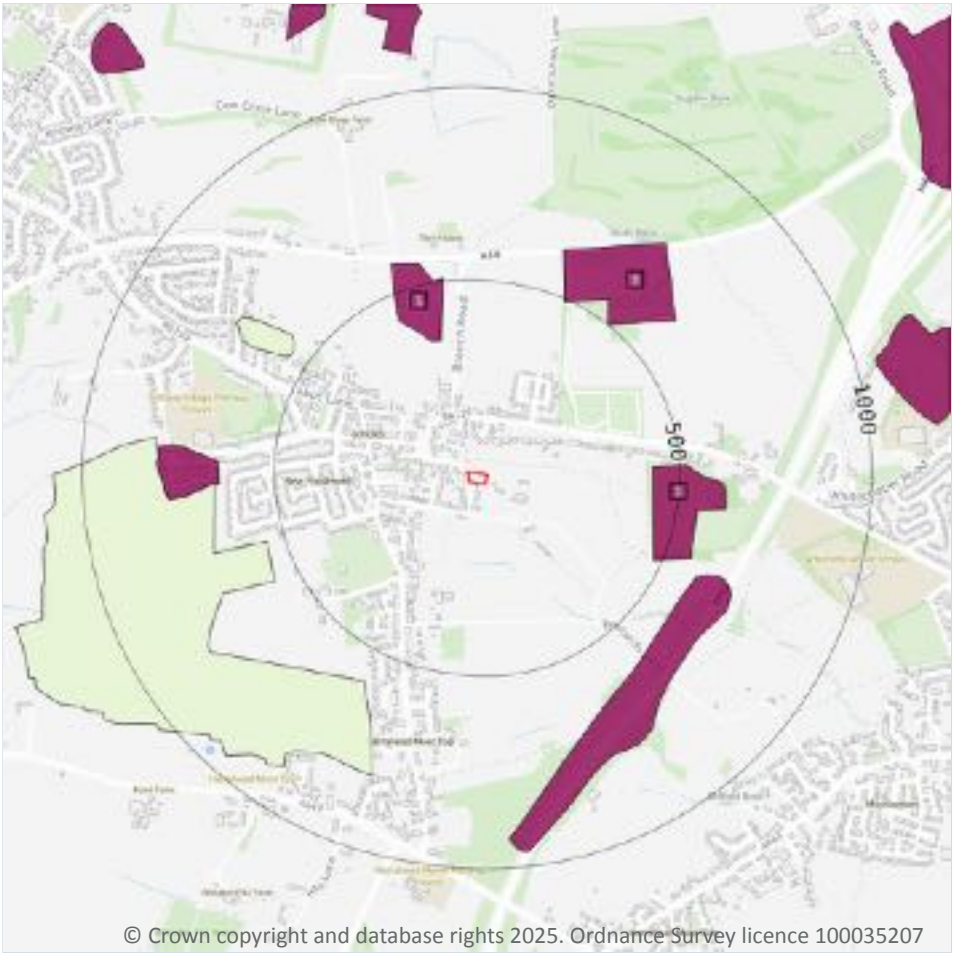
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 77 >**

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

This data is sourced from the British Geological Survey.

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



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Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	3

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 78 >**

ID	Location	LEX Code	Description	Rock description
1	347m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	429m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	493m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



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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	23

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 81 >**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
3	**On site**	**PLCM-MDSS**	**PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE**	**WESTPHALIAN**
5	40m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
6	44m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
8	77m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	135m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
10	179m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
12	185m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	190m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	236m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	251m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
18	277m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
21	295m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
26	396m N	CLRK-SDST	CLIFTON ROCK - SANDSTONE	WESTPHALIAN
27	397m SE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
29	405m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
30	440m S	FHR-SDST	FALHOUSE ROCK - SANDSTONE	WESTPHALIAN
31	449m SW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
33	456m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
35	463m N	CLRK-SDST	CLIFTON ROCK - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
36	467m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
37	491m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **3**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Moderate**	**Low**
On site	**Fracture**	**High**	**Moderate**
40m E	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m **15**

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 81 >**

ID	Location	Category	Description
4	**On site**	**FAULT**	**Fault, inferred**
7	48m E	ROCK	Coal seam, inferred
11	179m E	FAULT	Fault, inferred
14	193m E	ROCK	Coal seam, inferred
15	195m NE	ROCK	Coal seam, inferred
19	277m NW	FAULT	Fault, inferred

ID	Location	Category	Description
20	292m N	ROCK	Coal seam, inferred
22	305m SW	ROCK	Coal seam, inferred
23	321m S	FAULT	Fault, inferred
24	323m N	ROCK	Coal seam, inferred
25	363m N	ROCK	Coal seam, inferred
28	402m N	ROCK	Coal seam, inferred
32	449m SW	FAULT	Fault, inferred
34	462m S	ROCK	Coal seam, inferred
38	491m SE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes

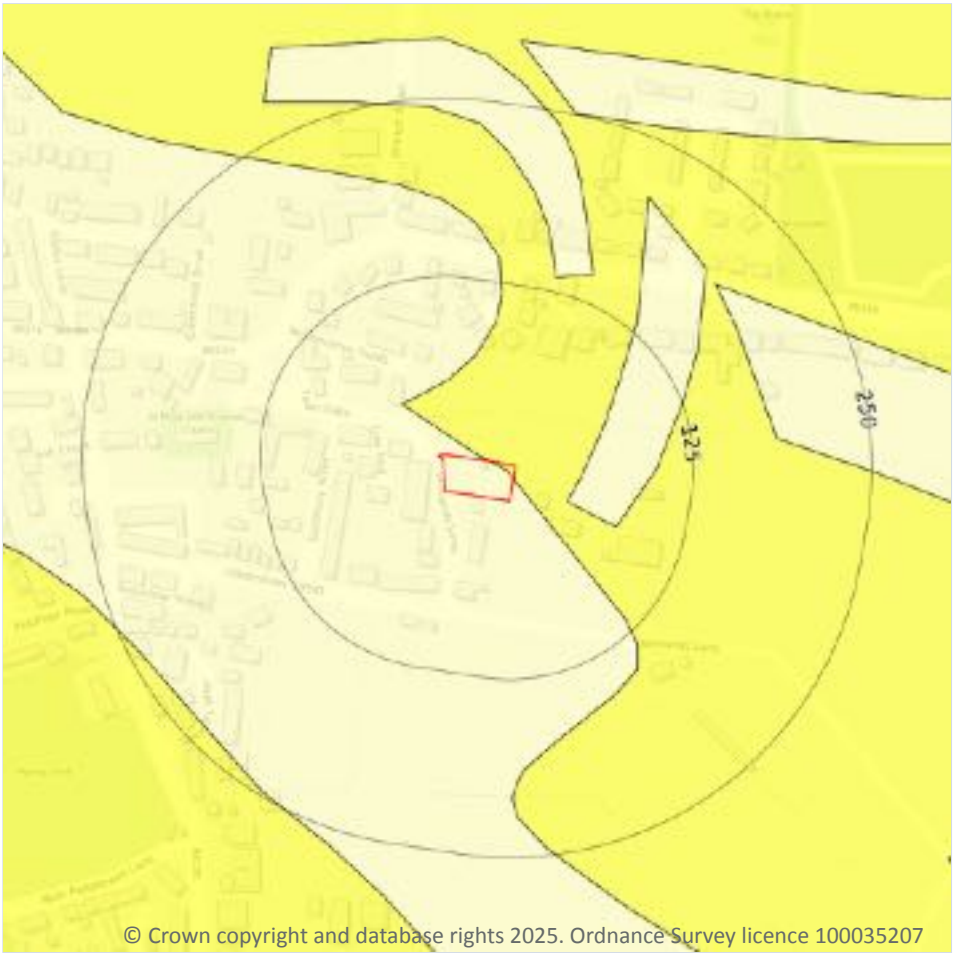
16.1 BGS Boreholes

Records within 250m	0

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.

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	3

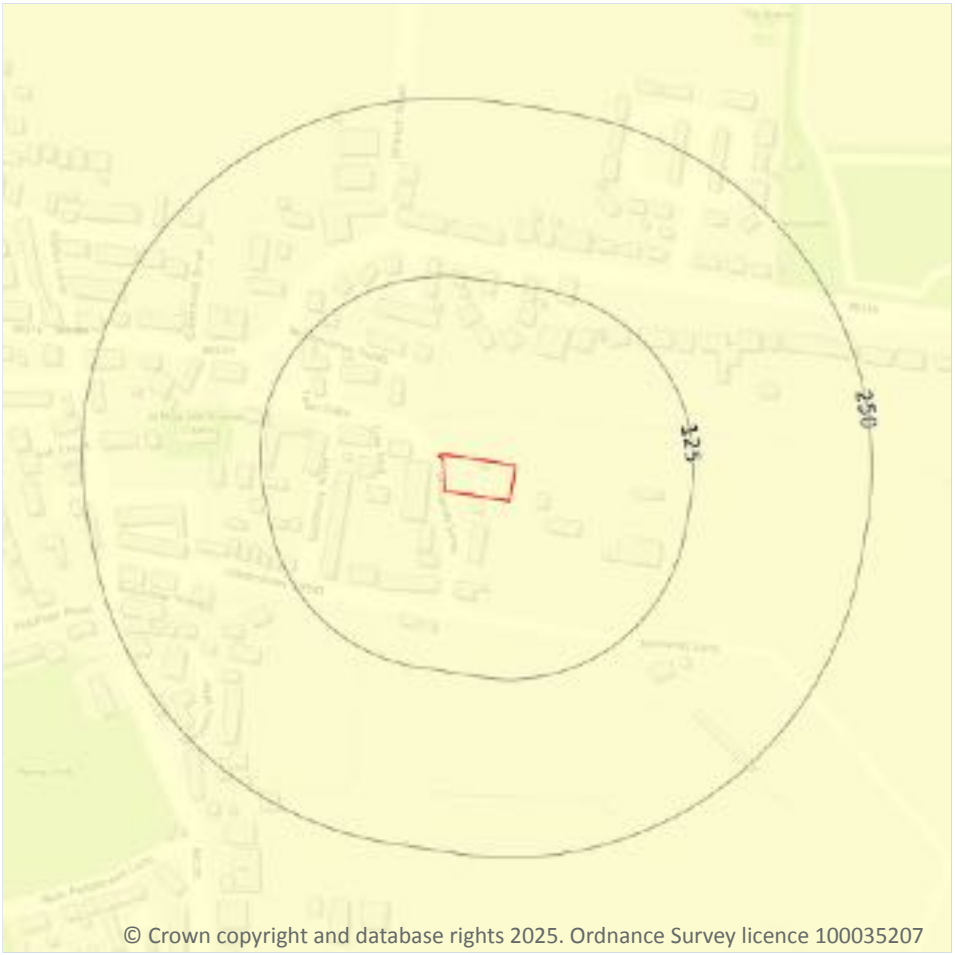
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 86 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Very low**	**Ground conditions predominantly low plasticity.**
40m E	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	1

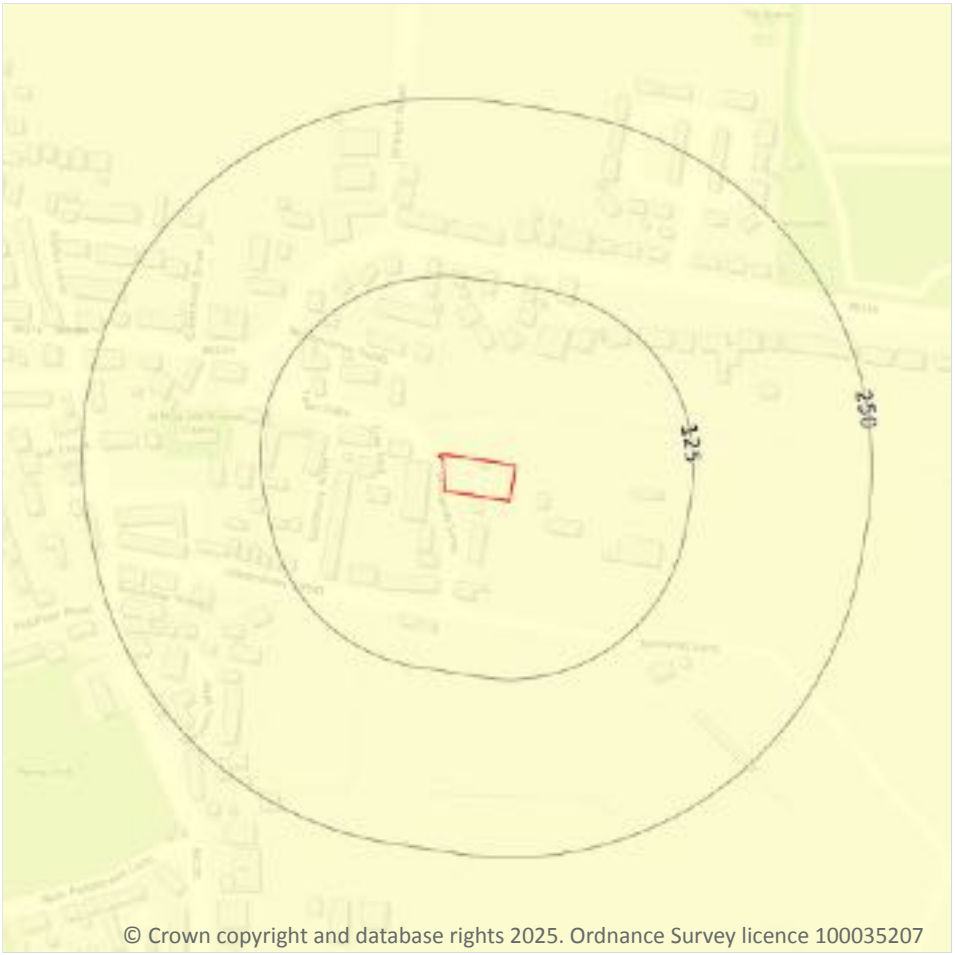
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 88 >**

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

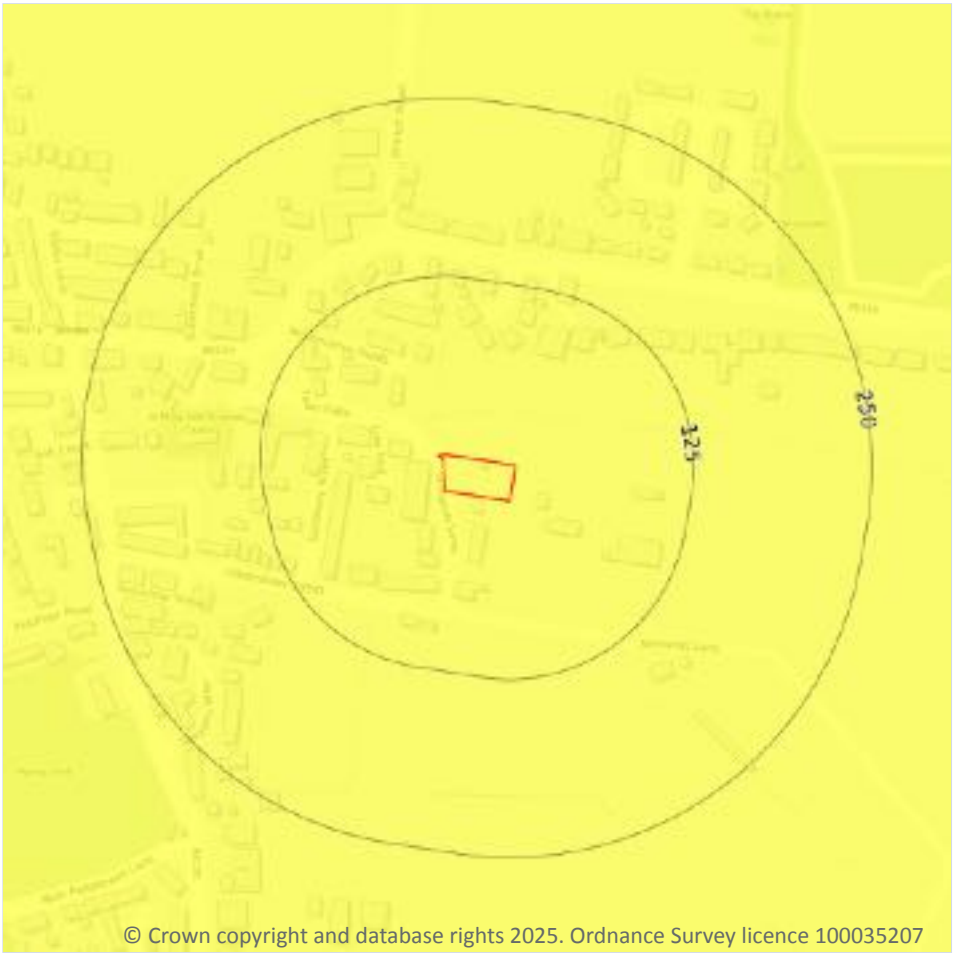
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 89 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

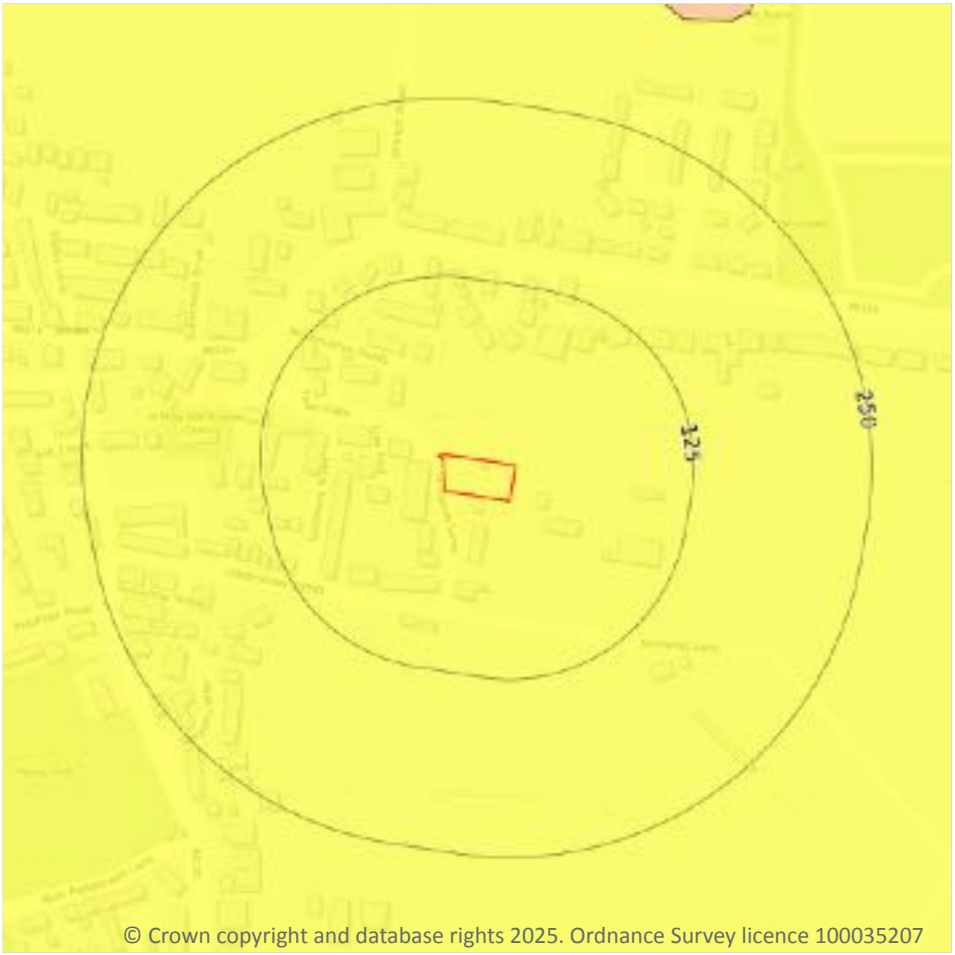
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 90 >**

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



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

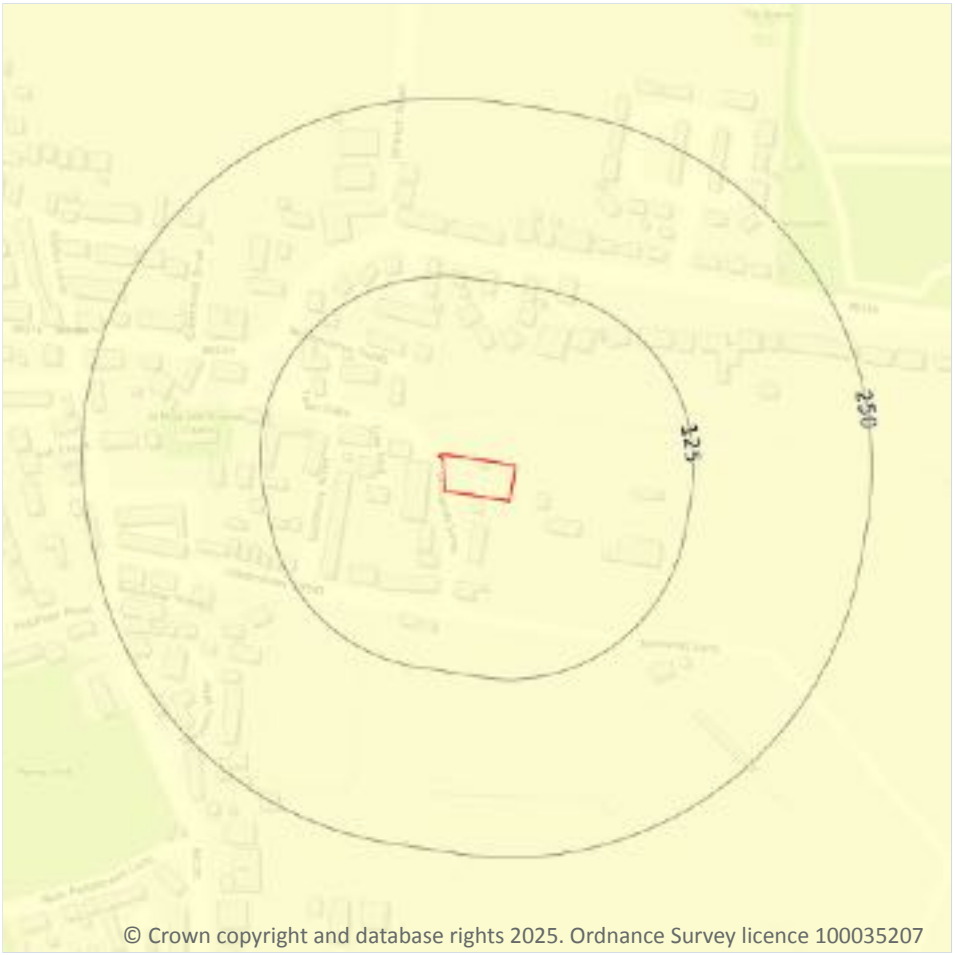
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 91 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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 92 >**

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



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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	4

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 94 >**

ID	Location	Details	Description
3	309m S	Name: Scholes Chapel Address: Scholes, LEEDS, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
G	406m S	Name: Primrose Hill Address: Cleckheaton, BRADFORD, West Yorkshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
M	475m W	Name: Popplewell Address: Scholes, LEEDS, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
M	489m W	Name: Popplewell Address: Scholes, LEEDS, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	16

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 94 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	218m NE	Cuttings	1955	1:10560
A	218m NE	Cuttings	1938	1:10560
A	221m E	Cuttings	1948	1:10560
1	240m SW	Unspecified Pit	1892	1:10560
B	247m NE	Cemetery	1955	1:10560
B	247m NE	Cemetery	1990	1:10000
B	247m NE	Cemetery	1983	1:10000
B	247m NE	Cemetery	1974	1:10000
B	247m NE	Cemetery	1967	1:10560
C	248m SW	Pond	1983	1:10000
C	248m SW	Pond	1974	1:10000
C	248m SW	Pond	1967	1:10560
2	248m NE	Cemetery	1905	1:10560
B	248m NE	Cemetery	1948	1:10560
B	248m NE	Cemetery	1938	1:10560
C	250m SW	Reservoirs	1948	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	22

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 94 >**

ID	Location	Land Use	Year of mapping	Mapping scale
I	403m E	Disused Colliery	1948	1:10560
I	403m E	Disused Colliery	1955	1:10560
D	419m N	Air Shaft	1948	1:10560
D	420m N	Unspecified Disused Shafts	1967	1:10560
D	424m N	Unspecified Old Shaft	1955	1:10560
D	433m N	Old Air Shaft	1955	1:10560
D	433m N	Unspecified Old Shafts	1948	1:10560
D	444m N	Unspecified Old Shafts	1948	1:10560
I	451m E	Colliery	1905	1:10560
L	462m NE	Disused Air Shaft	1990	1:10000
L	462m NE	Disused Air Shaft	1983	1:10000
L	462m NE	Disused Air Shaft	1974	1:10000
L	464m NE	Unspecified Shaft	1905	1:10560
L	464m NE	Old Air Shaft	1948	1:10560
L	466m NE	Old Air Shaft	1955	1:10560
G	496m S	Unspecified Old Shaft	1948	1:10560
G	498m S	Unspecified Old Shaft	1955	1:10560
I	510m E	Unspecified Old Shafts	1955	1:10560
I	519m E	Unspecified Old Shafts	1948	1:10560
N	520m NE	Colliery	1905	1:10560
I	549m E	Unspecified Old Shafts	1948	1:10560
-	921m W	Old Coal Pit	1905	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	0

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.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	6

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 94 >**

ID	Location	Name	Commodity	Class	Likelihood
4	396m N	Leeds/Bradford area	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.
G	440m S	Leeds/Bradford area	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.
5	463m N	Leeds/Bradford area	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.
-	854m NW	Leeds/Bradford area	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.

ID	Location	Name	Commodity	Class	Likelihood
-	924m NW	Leeds/Bradford area	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.
-	990m NE	Leeds/Bradford area	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	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

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

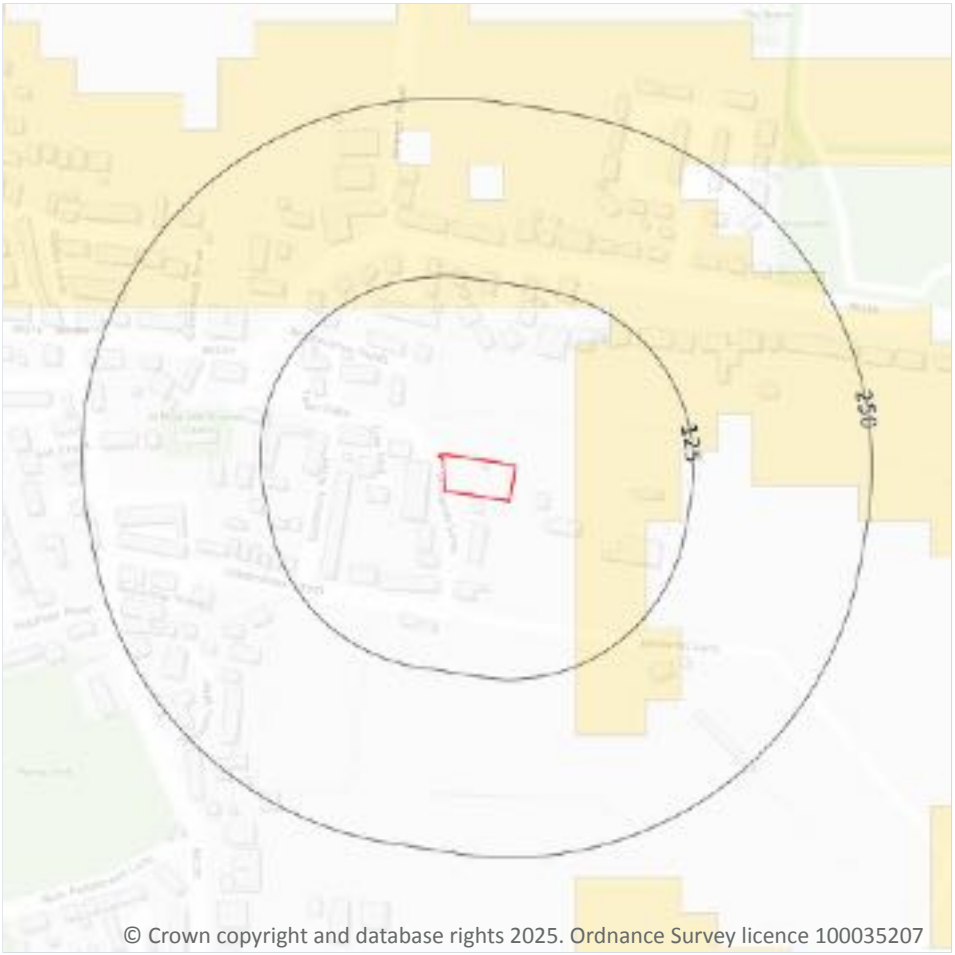
Records within 500m	0

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



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 104 >**

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	5

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	**25 - 35 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**35 - 45 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**35 - 45 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
40m E	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
44m NW	25 - 35 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.

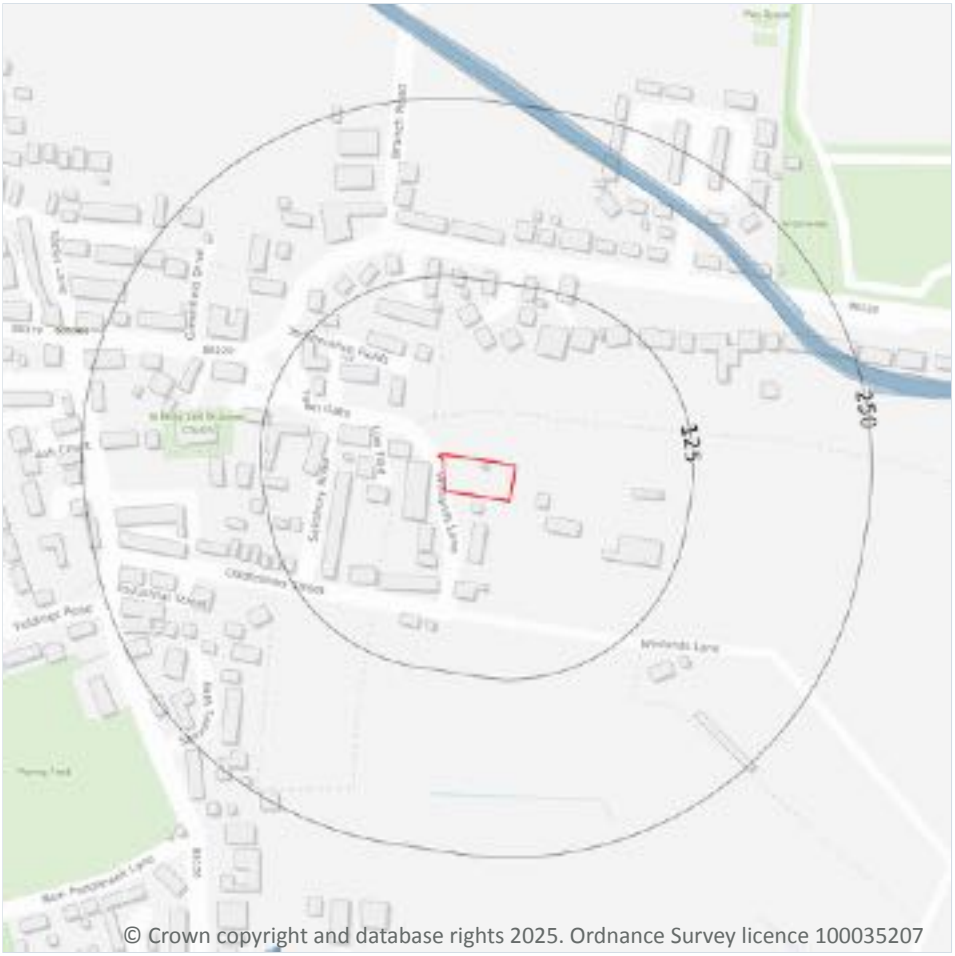
21.3 BGS Measured Urban Soil Chemistry

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



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Site Outline

Search buffers in metres (m)

- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

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	2

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.

Features are displayed on the Railway infrastructure and projects map on **page 108 >**

Location	Land Use	Year of mapping	Mapping scale
209m NE	Tramway Sidings	1907	2500
211m NE	Tramway Sidings	1905	10560

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

APPENDIX E - HISTORICAL CONTAMINATION RISK ASSESSMENT

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Desk Study Assessment of Potential Contamination Risk

Land Use Risk Assessment

An assessment has been carried out for a number of common past land uses, indicating the severity of risk rating that should be used. Where little is known about the site a more precautionary approach of the potential risks should be taken to highlight the uncertainty of knowledge regarding the potential risks. Where application recommendation is given to specific chemical testing that should be considered associated with an intrusive Ground Investigation (GI), however the exact scope of testing will be determined on a site-specific basis depending on the ground conditions present after completion of an appropriate intrusive GI.

Depending on the hydrogeology of the area and presence of any water-based receptors, leachate or groundwater testing may also need to be considered to classify the risks to these receptors.

Risk Classification

Based on the risk classification system set out in CIRIA C552, the following risk classifications have been used to define the potential risks to the identified potential future receptors.

Risk Term	Definition
Very High risk	There is a high probability that sever harm could arise to a designated receptor from an identified hazard at the site without appropriate remedial action being taken. Urgent investigation (if not already undertaken) and remediation very likely to be required.
High risk	Harm is likely to arise to a designated receptor for an identified hazard at the site without appropriate remedial action. Urgent investigation (if not already undertaken) and remediation likely to be required.
Moderate risk	It is possible that harm could arise to a designated receptor. It is relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that such harm would be relatively mild. Investigation normally required (if not already undertaken) to clarify risk; remediation may be required in the long-term.
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard. It is likely that, at worst if any harm was realised, any effects would be mild. Investigation may be required (if not already undertaken) but remediation is unlikely to be required.
Very Low risk	There is a low possibility that harm could arise to a receptor. In the event of such harm occurring it is not likely to be severe. Investigation may be required (if not already undertaken) to confirm.

Potential Risk		Land Use	Contamination Testing			Comments
Risk Term	GI Colour Rating		Basic Screen	TPH CWG	BTEX & PCBs	
Very High	Red	Radioactive site	Specialist assessment required			
		Petrol/chemical plant	X	X		
		Metal works	X	X		Toxic metals
		Landfill site	X			Depending on infill used
		Dye works	X	X	X	
		Coke works	X	X	X	
		Gas works	X	X	X	
		Tannery	X			
		Petrol station	X	X	X	
		Oil depot	X	X	X	
High	Yellow	Infilled ground	X			Depending on infill used
		Heavy industry	X		X	
		Soap works	X		X	
		Power station	X			
		Garage	X	X		
		Timber yard	X			
		Abattoir	X			
		Colliery	X			
Moderate		Fabric mill	X		X	Very High if dye on site
		Foundry	X			
		Hospital	X			
		Food factory	X			
		Sewage works	X		X	
		Brewery	X			
		Coal yard	X			
		Light industry	X			
		Colliery spoil	X			
Low	Green	Offices/commercial	X			
		Storage/warehouse	X			
		Residential	X			
		Quarry	X			Unfilled
		Gardens/park	X			
Very Low		Farm/agricultural	X			Unless chemicals used

APPENDIX F - CONCEPTUAL SITE MODEL

Ref.	Hazard	Source	Pathway	Receptor	Pollutant Linkage ?	Current anticipated risk (1) *	Comment	Action	Residual Risk *^
1	Heavy metals	Made Ground	Ingestion of soil & indoor dust	Site users	✅	Very low / 100%	Ground investigation required to confirm risk potential	Subject to findings of Ground Investigation	Very Low
2	Carcinogenic PAHs	Made Ground	Ingestion of soil & indoor dust	Site users	✅	Very low / 100%	Ground investigation required to confirm risk potential	Subject to findings of Ground Investigation	Very Low
3	TPH	Made Ground	Ingestion of soil & indoor dust	Site users	✅	Very low / 100%	Ground investigation required to confirm risk potential	Subject to findings of Ground Investigation	Very Low
4	Sulphate	Made Ground	Ingestion of soil & indoor dust	Concrete substructures	✅	Moderate / 100%	Sulphate precautions to be considered at this stage without chemical testing data	Subject to findings of Ground Investigation	Very Low
5	Leachable metals	Made Ground	Leaching to groundwater	Groundwater	✅	Very low / 100%	Ground investigation required to confirm risk potential	No further action deemed necessary	Very Low
6	Leachable PAH	Made Ground	Leaching to groundwater	Groundwater	✅	Very low / 100%	Ground investigation required to confirm risk potential	No further action deemed necessary	Very Low
7	Ground gases	Made Ground	Vertical migration through	Site users	✅	Very low / 100%	No potential sources identified.	No further action deemed necessary	Very Low
8	Radon	Bedrock	Vertical migration through	Site users	✅	Very low / 100%	No risks at levels present	No further action deemed necessary	Very Low
9	Invasive plant species	Invasive plant species	Contact with concrete substructures	On site buildings	✅	Very low / 100%	None identified during site walkover survey undertaken	Maintain vigilance during construction	Very Low
10	Trees	N/A	Changes to soil moisture regime	On site buildings	✅	Very low / 100%	Dependent on proposed planting regime and ground conditions	Subject to findings of Ground Investigation	Very Low
11	Flooding	River	Over land flow	On site buildings	✅	Very low / 100%	No risks at levels present	No further action deemed necessary	Very Low

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NOTES:

(1) Anticipated risk over percentage site area.

* Refer to Risk Matrix Table within report text.

^ Anticipated risk after carrying out action

CONCEPTUAL MODEL TABLE

Client : Shaun Rogerson

Project : Land off Wellands Lane, Cleckheaton

Job No : 25118

Appendix E