

Report No: C757
Date: April 2025

**PRELIMINARY INVESTIGATION
of land at
51 TURNSHAW ROAD, KIRKBURTON, HUDDERSFIELD,
WEST YORKSHIRE**



Prepared for
Cape Site Services Ltd

Prepared by
G&M Consulting Ltd, The Chestnuts, Brackenhill Road, Haxey, Doncaster DN9 2LR





REPORT NUMBER:	C757	REPORT STATUS:	Final
REPORT TYPE:	Preliminary Investigation		
REPORT DATE:	April 2025		
SITE:	Land at 51 Turnshaw Road, Kirkburton, Huddersfield, West Yorkshire		
PREPARED FOR:	Cape Site Services Ltd		
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TABLE OF CONTENTS

1.0 INTRODUCTION.	2
2.0 SITE DESCRIPTION.	3
2.1 Site Location.	3
2.2 Site Features.	3
3.0 SITE HISTORY.	3
4.0 ENVIRONMENTAL SETTING.	4
4.1 Published Geology	4
4.2 GroundSure GeolInsight	5
4.3 Hydrology	5
4.4 Hydrogeology	5
4.5 Mining and Quarrying	5
4.6 Radon	5
4.7 Additional Environmental Information	6
4.8 Unexploded Ordnance	7
5.0 PRELIMINARY CONCEPTUAL SITE MODEL.	8
5.1 Introduction	8
5.2 Assessment of Potential Sources of Contamination	9
5.3 Potential Receptors	9
5.4 Potential Pathways	10
5.5 Qualitative Risk Assessment	10
6.0 CONCLUSIONS AND RECOMMENDATIONS.	11

APPENDICES

APPENDIX A – DRAWINGS

C757/1	Site Location Plan
0467_Turn_102	Development Layout Plan

APPENDIX B – GROUNDSURE REPORT

APPENDIX C – PHOTOGRAPHS

APPENDIX D – DEFINITIONS & CLASSIFICATIONS OF RISK ASSESSMENT TERMINOLOGY

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1.0 INTRODUCTION.

G&M Consulting Ltd (G&M) was commissioned by Cape Site Services Ltd, to undertake a preliminary investigation (desk study) of a plot of land at 51 Turnshaw Road, Kirkburton, Huddersfield, West Yorkshire. It is understood that approval is being sought for the development of the site for residential purposes. This report has been commissioned to support the discharge contaminated land conditions associated with an approval.

The proposed development is shown on Drawing No 0467_Turn_102, dated 16.08.24, prepared by Eleven52 Architects. A copy of this drawing is presented in Appendix A of this report.

The aims of this investigation are as follows;

- To determine the land use history of the site from an inspection of available historical Ordnance Survey (OS) plans;
- To determine the environmental setting of the site, including the details of the geology, hydrogeology and hydrology;
- To determine the likelihood of shallow mine workings beneath the site;
- To determine whether the site had previously been used for any purpose that may have given rise to significant ground contamination;
- Develop a Preliminary Conceptual Site Model; and,
- To provide recommendations for any further works, if required.

As part of the desk study, information was sourced from GroundSure Limited (GroundSure), British Geological Survey (BGS), The Mining Remediation Authority (MRA), The Environment Agency (EA) and Building Research Establishment (BRE). A site inspection (walk-over survey) was also carried out by a G&M Geologist on the 14th April 2025.

This report is based on the data obtained from the preliminary investigation, it is limited to that data, and responsibility cannot be accepted for conditions not revealed by the investigation. Any diagram or opinion of the possible configuration of the ground conditions is conjectural and given for guidance only.

During the course of the site walk-over G&M did not note the possible presence of Japanese Knotweed on the subject site. However, it should be borne in mind G&M are not qualified ecologists and as such cannot guarantee the absence of knotweed or other invasive vegetation. If necessary, the possible presence of such vegetation should be confirmed by a qualified ecologist.

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2.0 SITE DESCRIPTION.

2.1 Site Location.

The site is located off Turnshaw Road, which runs to the south of the site, on the eastern edge of the village of Kirkburton, approximately 8 km south-east of Huddersfield town centre at National Grid Reference SK 200 129. A site location plan is shown on Drawing No. C757/1, presented in Appendix A of this report.

2.2 Site Features.

The rear (northern) part of the site is a flat lying roughly rectangular shaped piece of land, which has been subject to a partial site strip, which has exposed topsoil and subsoil at the surface. The front part of the site comprises the property to No 51 Turnshaw Road, which runs to the south of the site.

The central part of the site, i.e, which splits either end of the site, comprises a tarmac road surfaced road, which extend to, and runs to the rear of the properties, to the east of the site. This road eventually joins Turnshaw Road. This area of tarmac extends to the side of the existing property at No 51. Where the tarmac ends and Turnshaw road, a temporary access way has been formed onto the site, which exposes natural subsoils at the surface. There is a drop in site levels across this temporary access.

The site is bounded by playing fields to the north, residences to the east and west and Turnshaw road to the south.

A set of site condition photographs have been retained by G&M for inspection if required. However, a selection of photographs taken during the walkover survey are presented in Appendix C of this report.

3.0 SITE HISTORY.

A GroundSure report was commissioned, as part of this investigation, in order to review the environmental and regulatory information for the site and the immediate surrounding area. A copy of the report is presented in Appendix B of this report. A summary of the findings of the report and the general setting of the site is described in the following sections.

The GroundSure report contains historical Ordnance Survey maps which have been reviewed. Below is a summary of the salient points relating to the history of the site, dated from 1854. It is not the intention of this report to describe, in detail, all the changes that have occurred on or adjacent to the site, only those pertinent to the proposed development. This approach is intended to reduce uncertainty in the desk study review process to an acceptable level in line with BS10175:2011+A2:2017.

Date (Scale)	Site Usage	Surrounding Area Usage
1854 (1:10,560) County Series	<ul style="list-style-type: none"> Site shown to be undeveloped 	<ul style="list-style-type: none"> Turnshaw Road shown running to the south of the site 'Dyehouses' shown approximately 30m to the south east of the site Sandstone quarry shown approximately 100m to the south

1892 & (1:10,560) & 1893 (1:2,500) County Series	<ul style="list-style-type: none"> No significant change 	<ul style="list-style-type: none"> 'well' shown approximately 100m to the south east
1904 (1:10,560) & 1906 (1:2,500) County Series	<ul style="list-style-type: none"> No significant change 	<ul style="list-style-type: none"> 'well' no longer shown
1913 (1:2,500) County Series	<ul style="list-style-type: none"> No significant change 	<ul style="list-style-type: none"> Sandstone quarry to the south of the site, now shown to within approximately 20m of western boundary. Labelled 'Shepley Side Quarry'
1932 & 1938 (1:10,560) County Series	<ul style="list-style-type: none"> Unlabelled building shown in south eastern part of site (probable residence) 	<ul style="list-style-type: none"> 'Shepley Side Quarry' now shown as 'disused' Probable residences now shown adjacent to eastern boundary of site
1948 (1:10,560) County Series	<ul style="list-style-type: none"> No significant change. 	<ul style="list-style-type: none"> No significant change
1955 (1:10,560) Provisional	<ul style="list-style-type: none"> No significant change 	<ul style="list-style-type: none"> No significant change
1960/1961 (1:2,500)	<ul style="list-style-type: none"> No significant change 	<ul style="list-style-type: none"> No significant change
1968 (1:10,560) (National Grid)	<ul style="list-style-type: none"> No significant change 	<ul style="list-style-type: none"> No significant change
1979 (1:10,000) & 1983/1984 (1:2,500) National Grid	<ul style="list-style-type: none"> No significant change 	<ul style="list-style-type: none"> 'Adult Training Centre' shown adjacent to the northern site boundary
1985/1990 & 1994 (1:2,500) & 1993 (1:10,000) National Grid	<ul style="list-style-type: none"> No significant change 	<ul style="list-style-type: none"> No significant change
2001 (1:10,000) National Grid & 2003 (1:1,250) LandLine	<ul style="list-style-type: none"> No significant change. 	<ul style="list-style-type: none"> No significant change
2010 & 2025 (1:10,000) National Grid	<ul style="list-style-type: none"> No significant change 	<ul style="list-style-type: none"> No significant change

4.0 ENVIRONMENTAL SETTING.

4.1 Published Geology

Maps/publications referenced	1:50,000, Sheet 77 (Huddersfield) Solid & Drift Edition 1997 BGS online Geindex interactive map. Groundsure Report Ref:GS-SIL-53Y-BPI-UY3
Superficial Geology	None shown
Solid Geology	Pennine Lower Coal Measures – Named unit Kirkburton Sandstone – Carboniferous age
Dip	None shown locally
Faults	No faults mapped within 500m of site

4.2 GroundSure GeolInsight

The GroundSure report contains a GeolInsight report, this presents the published geology, as detailed above together with a risk assessment on potential geological hazards. All risks identified as less than moderate are not discussed further. All identified natural hazard risks at the site are deemed to be low, very low or negligible.

4.3 Hydrology

The site is not shown to be located on a Flood Zone 2 and Flood Zone 3 area.

The highest risk posed to the site from 'Surface Water Flooding' according to the GroundSure Report is highlighted to be '*1 in 30 year, 0.3m-1.0m (within 50m)*'. According to the GroundSure Report, the risk posed to the site by groundwater flooding is '*Negligible (within 50m)*'.

There are no recorded 'Historical Flood Events' recorded within 250m of site.

According to the GroundSure report, there is one surface water feature within 250m of the site, which is shown 244 m to the south-west. This is recorded as '*Inland river not influenced by normal tidal action*'

The site is identified to lie within the catchment of '*Fenay beck from source to River Colne*' in the operational catchment of the '*Colne and Holme*'.

The site is not shown to be within a "*Nitrate Sensitive Area*" or a "*Nitrate Vulnerable Zone*".

4.4 Hydrogeology

Information provided by the EA indicates that the underlying bedrock (Kirkburton Sandstone) is classified as 'Secondary A Aquifer', which is defined as having;

'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.'

The site is not shown to be within a Source Protection Zone.

The GroundSure Report identifies that the site is positioned within an area where Groundwater Vulnerability for the bedrock geology is '*Medium*'.

4.5 Mining and Quarrying

According to the MRA interactive map (<http://datamine-cauk.hub.arcgis.com>) the site does not lie within a 'development high risk area'.

The GroundSure Report indicates there are 13 'Surface Ground Workings' within 250m of the site, the closest relates to an 'unspecified disused quarry' on the OS maps dated 1938 to 1979.

4.6 Radon

The GroundSure report contains information on Radon Affected Areas as defined by the Health Protection Agency (HPA) and indicates that:

- "The site is in a Radon Affected Area, where less than 1% of properties are above the Action Level".

- “No radon protective measures are necessary”.

4.7 Additional Environmental Information

The GroundSure report, presented in Appendix B, also contains information on other potential pollution sources on and off site, a summary of these is presented below together with recommendations for further consideration.

Source	Location	Discussion	Does source warrant further consideration
Historic Tanks	On site	None identified	No
	Within 250m		
Historic Energy Facilities	On site	None identified	No
	Within 250m	1 No shown: 114m west, referenced as 'Electricity substation' on the OS map dated 1978-1990	
Petrol and Fuel sites	On site	None identified	No
	Within 250m		
Garage/Motor Vehicle Repair	On site	None identified	No
	Within 250m		
Environmental permits/incidents/registers	On site	None identified	No
	Within 250m	None identified	
Licenced/Permitted/ Authorised industrial sites	On site	None identified	No
	Within 250m		
Part A1/IPC Authorisations	On site	None identified	No
	Within 250m		
Red List discharge consents	On site	None identified	No
	Within 250m		
Dangerous substances	On site	None identified	No
	Within 250m		
A2/Part B Activities/ Enforcements	On site	None identified	No
	Within 250m		
Radioactive substances	On site	None identified	No
	Within 250m		
Licenced Discharge Consents	On site	None identified	No
	Within 250m		

Source	Location	Discussion	Does source warrant further consideration
Water Industry Referrals	On site	None identified	No
	Within 250m		
Hazardous Substances	On site	None identified	No
	Within 250m		
Pollution Incidents	On site	None identified	No
	Within 250m		
Historic Landfill/Waste Sites	On site	None identified	No
	Within 250m		
Waste treatment, transfer or disposal sites	On site	None identified	No
	Within 250m	None identified	
Underground cables/pipelines	On site	None identified	No
	Within 500m		
Recent Industrial Sites Data	On site	None identified	No
	Within 250m	3 No shown: The closest shown 116m west, referenced as 'Electricity substation'.	

4.8 Unexploded Ordnance

Area shown to be within a low risk zone. The risk map taken from available information provided by Zetica Ltd, is shown below.



This map principally indicates areas at risk from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- High Risk: Areas indicated as having a bombing density of 50 bombs per 100 acres or higher.
- Moderate: Areas indicated as having a bombing density of 15 to 40 bombs per 100 acres.
- Low: Areas indicated as having 15 bombs per 100 acres or less.

Military Industry UXO find Other
Transport Docks Airfields
Utilities Bombing decoy Targets

The Site

5.0 PRELIMINARY CONCEPTUAL SITE MODEL.

5.1 Introduction

The findings of the desk study have been used to identify and assess potential sources of contamination and to develop a preliminary conceptual model of the site in order to investigate potential pollution linkages and identify complete pollutant linkages that may require further investigation or analysis and/or remediation. This approach is in line with the principals of Land Contamination Risk Management (LCRM) - Environment Agency July 2023.

The scope of the model is intended primarily to identify potential impacts to human health and environmental receptors from potential on-site and off-site contamination sources.

Source-Pathway-Receptor elements within the model are defined as follows:

Contaminant Source	A hazardous substance or agent, present at levels that have the potential to cause harm or damage a receptor.
Receptor	An entity (human, aquatic environment, flora and fauna etc) that is vulnerable to the adverse effects of the contaminant.
Pathway	The means by or through which a contaminant comes into contact with or otherwise effects a receptor.

Where all three elements are present, the relationship is termed a complete 'pollution linkage'. It should be recognised that for a health or environmental harm to occur and for potential unacceptable risk to exist, all three elements of the relationship or linkage must be present.

The purpose of the site-specific conceptual model is to support:

1. Hazard assessment – analysis of the potential for unacceptable risk: pathways and receptors that could be present.
2. Risk estimation – a prediction of the magnitude and probability of the possible consequences of any exposure: what degree of harm may result and the likelihood of harm.
3. Risk evaluation – decision as to whether a risk is unacceptable.

It should be noted that if a potential contaminant source is identified but there is no receptor present that can be adversely affected, no harm or damage can arise. Similarly, even where both a contaminant and a receptor are present, no harm or damage will occur if there is no pathway by or through which a linkage between the two can be established and therefore a risk may be acceptable.

In assessing risk, the categorisation shown below has been developed. The table is intended to be an aid to assessing the degree of risk. It should be noted that in terms of Part 2A of the Environmental Protection Act 1990 (as amended) there is no differing degree of risk. It is either 'significant' or not.

Term	Description
Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without appropriate remedial action
High Risk	Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remedial action
Moderate Risk	It is possible that without appropriate remedial action harm could arise to a designated receptor. It is relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely that such harm would be relatively mild.
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.
Negligible Risk	The presence of an identified hazard does not give rise to the potential to cause harm to a designated receptor.

5.2 Assessment of Potential Sources of Contamination

Potential sources of contamination have been assessed which include both current and historical on-site sources together with those originating from off-site locations which may migrate onto the site.

The rear (northern) part of the site is a flat lying roughly rectangular shaped piece of land, which has been subject to a partial site strip, which has exposed topsoil and subsoil at the surface. The front part of the site comprises the property to No 51 Turnshaw Road, which runs to the south of the site. The central part of the site, i.e, which splits either end of the site, comprises a tarmac surfaced road, which extend to, and runs to the rear of the properties, to the east of the site. This road eventually joins Turnshaw Road. This area of tarmac extends to the side of the existing property at No 51. Where the tarmac ends and Turnshaw road, a temporary access way has been formed onto the site. There is a drop in site levels across this temporary access.

Historical maps appear to indicate the site has remained undeveloped until sometime prior to 1932, following which the site appears to have formed the area of garden to the residence of No 51 Turnshaw Road.

Off-site sources of potential contamination appear to be limited to the area of historical quarrying which extended to within about 20m of the western boundary of the site, and shown on the OS maps dated between 1932 and 1979. The quarry is shown as 'disused' on the OS map dated 1932.

5.3 Potential Receptors

The following potential receptors have been identified for the site:

Receptor	Details
Human Receptors	Future site occupiers
	Construction workers
Controlled Waters	Kirkburton Sandstone (Secondary A)
Built Development	Building foundations/substructures and utility connections.

5.4 Potential Pathways

Taking into account the intended use of the site, the following potential pathways by which the above receptors and sources may be linked as follows;

Receptor	Pathway
Human (Future site users, construction workers)	Ingestion of soil/soil dust Dermal contact with soil/soil Indoor/outdoor inhalation of ground gas
Controlled Waters	Percolation and mobilisation of contaminants within any shallow soils into the groundwater.
Built Development	Direct contact with aggressive ground conditions via migration and/or percolation out of the ground

5.5 Qualitative Risk Assessment

The findings of the desk study, and source receptor pathway analyses, have been accounted for and assessed in the conceptual model presented below. The purpose of the model is to determine the potential linkage(s) existing on the site, and the likelihood of the linkage being present and determining a consequent level of risk.

Preliminary Conceptual Site Model

Source	Risk	Potential Contaminants	Likely Exposure Pathway/s	Receptor/s	Probability Assessment**
Made Ground (On-site)	Low/Negligible	Inorganic and organic contaminants	Skin contact Ingestion	End users (residential) and construction workers	<p>Unlikely – historically the site appears to have been undeveloped prior to 1932, following which it appears to have been a garden to the residence at no 51 Turnshaw Road.</p> <p>No evidence of made ground soils present in the area of partial site strip, to the rear of the site or in the temporary access created off Turnshaw Road</p> <p>It is assumed that the residence at No 51 will remain on site and the Tarmacadam hardstanding/road will also remain in-situ</p>
			Leaching/migration of contaminants through soil	Controlled waters	
		Vapours and fumes from hydrocarbons	Inhalation	End users (residential)	
		Mobile organic contaminant hydrocarbons	Leaching/migration of contaminants through soil	Built Development (Water supply pipes)	

	Negligible/Low	Asbestos Containing Materials (ACMs)	Ingestion/Inhalation	End users (residential) and construction workers	Unlikely – considering the historical and current site uses, with limited if any made ground, ACMs unlikely.. No demolition rubble present on site
		Ground Gas	Inhalation	End users/Built Development	Unlikely – Limited made ground likely to be present with historical or current uses of the site. No evidence of putrescible made ground present on site. Site not shown to be underlain by organic rich alluvial soils, which can generate ground gas. Site not shown to be underlain by shallow mine workings, which can both generate and provide preferential pathways for gas. No current or historical landfills shown within 250m of the site. Radon gas protection measures not shown to be required.
Made Ground (off site). Historical sandstone quarry recorded to within 20m of the western boundary on the OS maps dated 1932 to 1979	Negligible/Low	Mobile inorganic/organic contaminant associated with former/current off-site uses	Inhalation	End users (residential) and built development	Unlikely – See rationale above. Quarry not shown to have been infilled following cessation of works. Quarry first shown as ‘disused’ on OS map dated 1932. No pollution incidents recorded within 250m of the site. No current or historical landfills shown within 250m of the site, ie in vicinity of old quarry
			Skin contact, Ingestion		

** Definitions and Classifications of Risk Assessment Terminology presented in Appendix D of this report

The preliminary conceptual site model has not identified potential complete pollutant linkages that are considered to require further risk assessment and investigation.

6.0 CONCLUSIONS AND RECOMMENDATIONS.

G&M Consulting Ltd (G&M) was commissioned by Cape Site Services Ltd, to undertake a preliminary investigation (desk study) of a plot of land at 51 Turnshaw Road, Kirkburton, Huddersfield, West Yorkshire. It is understood that approval is being sought for the development of the site for residential purposes. This report has been commissioned to support the discharge contaminated land conditions associated with an approval.

The proposed development is shown on Drawing No 0467_Turn_102, dated 16.08.24, prepared by Eleven52 Architects. A copy of this drawing is presented in Appendix A of this report.

The site is not shown to be located within a Flood Zone 2 and a Flood Zone 3 area.

The highest risk posed to the site from ‘Surface Water Flooding’ according to the GroundSure Report is highlighted to be ‘1 in 30 year, 0.3m-1.0m (within 50m)’. According to the GroundSure Report, the risk posed to the site by groundwater flooding is ‘Negligible (within 50m)’.

There are no recorded 'Historical Flood Events' recorded within 250m of site.

The site is not shown to be within a designated Source Protection Zone.

Records indicate the site is not underlain by superficial deposits. The solid geology of the Pennine Lower Coal Measures Formation (Kirkburton Sandstone) is noted to underlie the site.

According to the MRA interactive map (<http://datamine-cauk.hub.arcgis.com>) the site does not lie within a 'development high risk area'.

The rear (northern) part of the site is a flat lying roughly rectangular shaped piece of land, which has been subject to a partial site strip, which has exposed topsoil and subsoil at the surface. The front part of the site comprises the property to No 51 Turnshaw Road, which runs to the south of the site. The central part of the site, i.e, which splits either end of the site, comprises a tarmac surfaced road, which extend to, and runs to the rear of the properties, to the east of the site. This road eventually joins Turnshaw Road. This area of tarmac extends to the side of the existing property at No 51. Where the tarmac ends and Turnshaw road, a temporary access way has been formed onto the site, which exposes natural subsoils at the surface. There is a drop in site levels across this temporary access.

It is assumed that the residence at No 51 will remain on site and the Tarmac hardstanding/road will also remain in-situ

Potential sources of contamination have been assessed which include both current and historical on-site sources together with those originating from off-site locations which may migrate onto the site.

Historical maps appear to indicate the site has remained undeveloped until sometime prior to 1932, following which the site appears to have formed the area of garden to the residence of No 51 Turnshaw Road.

The risk of ground gas affecting the site is considered **Negligible/low**, for the following reasons; Based on the previous uses of the site it is considered that limited, made ground is likely present on site. No putrescible made ground was identified during the walkover. The site is not shown to be underlain by organic rich superficial soils, which can give rise to gases. The site is not underlain by shallow coal workings, which can both generate and create pathways for the migration of gases. There are no historical or current landfills recorded within 250m of the site.

Furthermore, the historical sandstone quarry, shown extending to within approximately 20m of the western boundary, does not appear to have infilled with wastes, following cessation of quarrying activities. The quarry is first shown as 'disused' on OS map dated 1932. There are no records presented in the GroundSure, which provides any evidence of filling. There are no recorded pollution incidents within 250m of the site.

Radon protection measures are **not** shown to be required for any new build properties at the site.

The preliminary conceptual site model does not indicate plausible potential complete pollutant linkages, associated with the former/current uses of the site, that require further assessment and/or investigation.

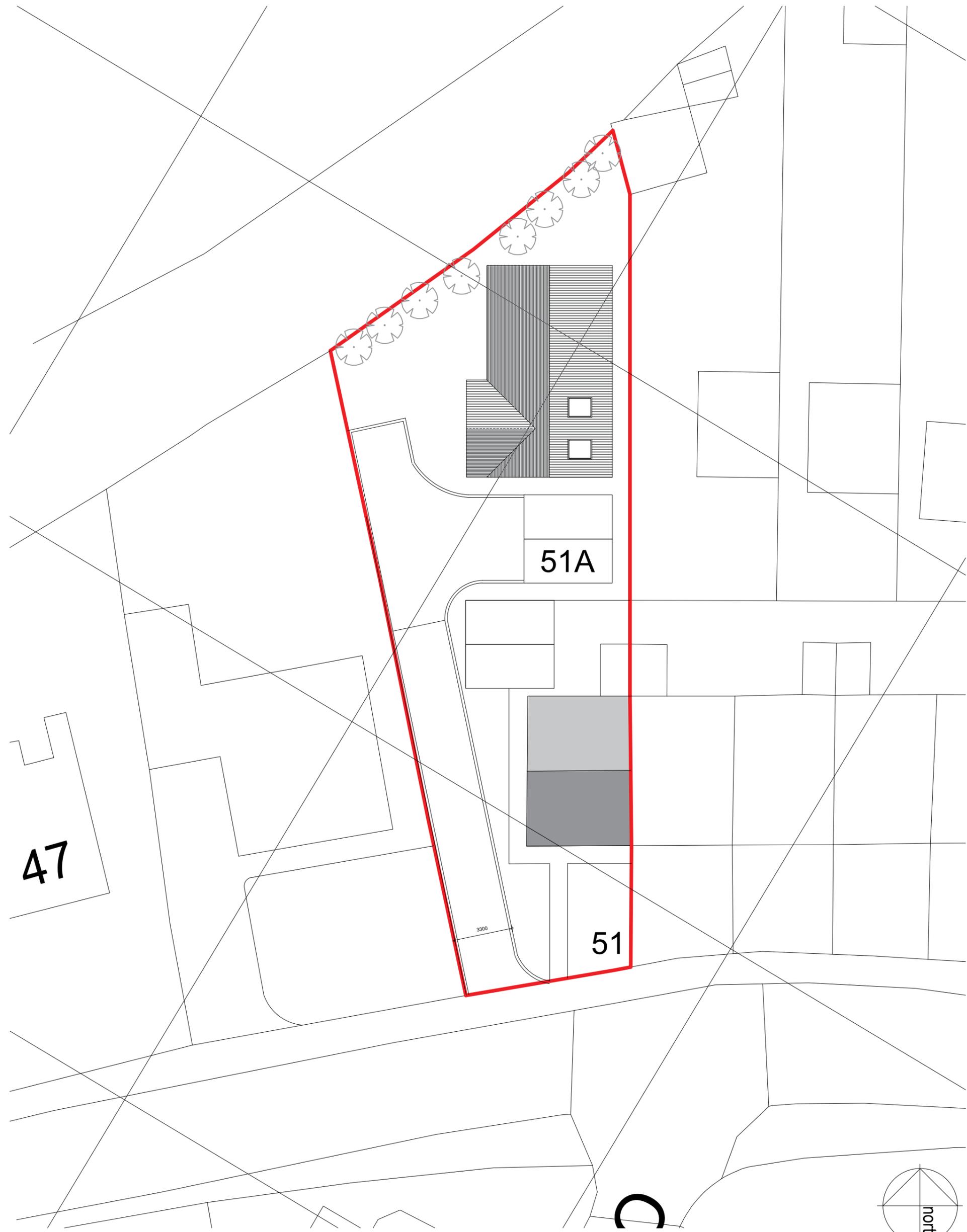
The conclusions and recommendations presented above are considered practical based on the findings of this report. However, they cannot however be guaranteed to gain regulatory approval,

and therefore this report should be submitted to the regulators for their comment/approval as part of the planning process and before any development work takes place.



APPENDIX A

DRAWINGS



SITE PLAN
1:200@A3



Notes:
Unless indicated, this drawing is for information only.
Do not scale, use figured dimensions only.
All dimensions to be checked on site

Drwg. original size: A3

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Project: 51 TURNSHAW ROAD
Kirkburton

Drawing Title: Proposed Site Plan

Scale: As shown@ A3

Drwg. Created: 16.08.24

Drwg. No:	0467_TURN_102
Status:	Planning (*)
Revision:	*



The Site

Site Location Plan

Drawing No C757/1

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APPENDIX B

GROUNDSURE DOCUMENTS

Site Details:

51, TURNSHAW ROAD,
KIRKBURTON, HUDDERSFIELD,
KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: County Series

Map date: 1893

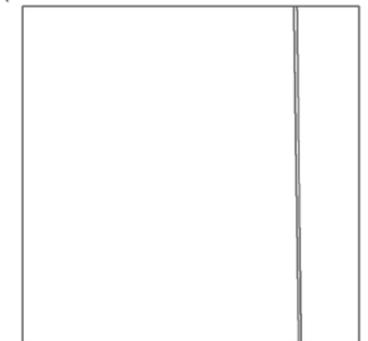
Scale: 1:2,500

Printed at: 1:2,500



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

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

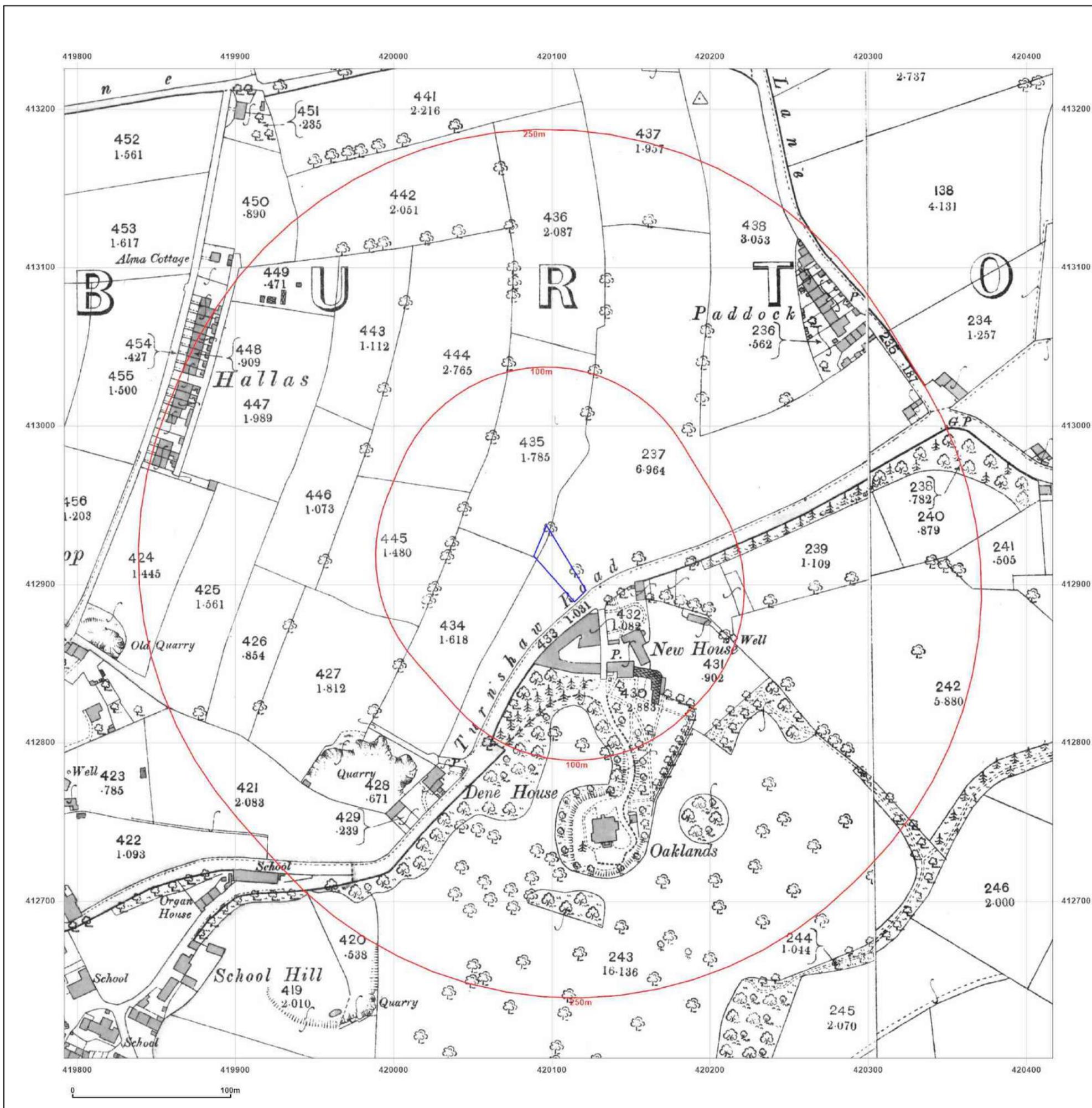


Produced by
Groundsure Insights
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W: www.groundsure.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 01 April 2025

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



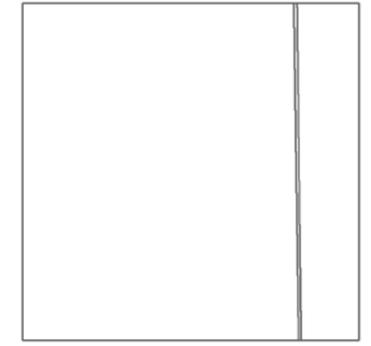
Site Details:
 51, TURNSHAW ROAD,
 KIRKBURTON, HUDDERSFIELD,
 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

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



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



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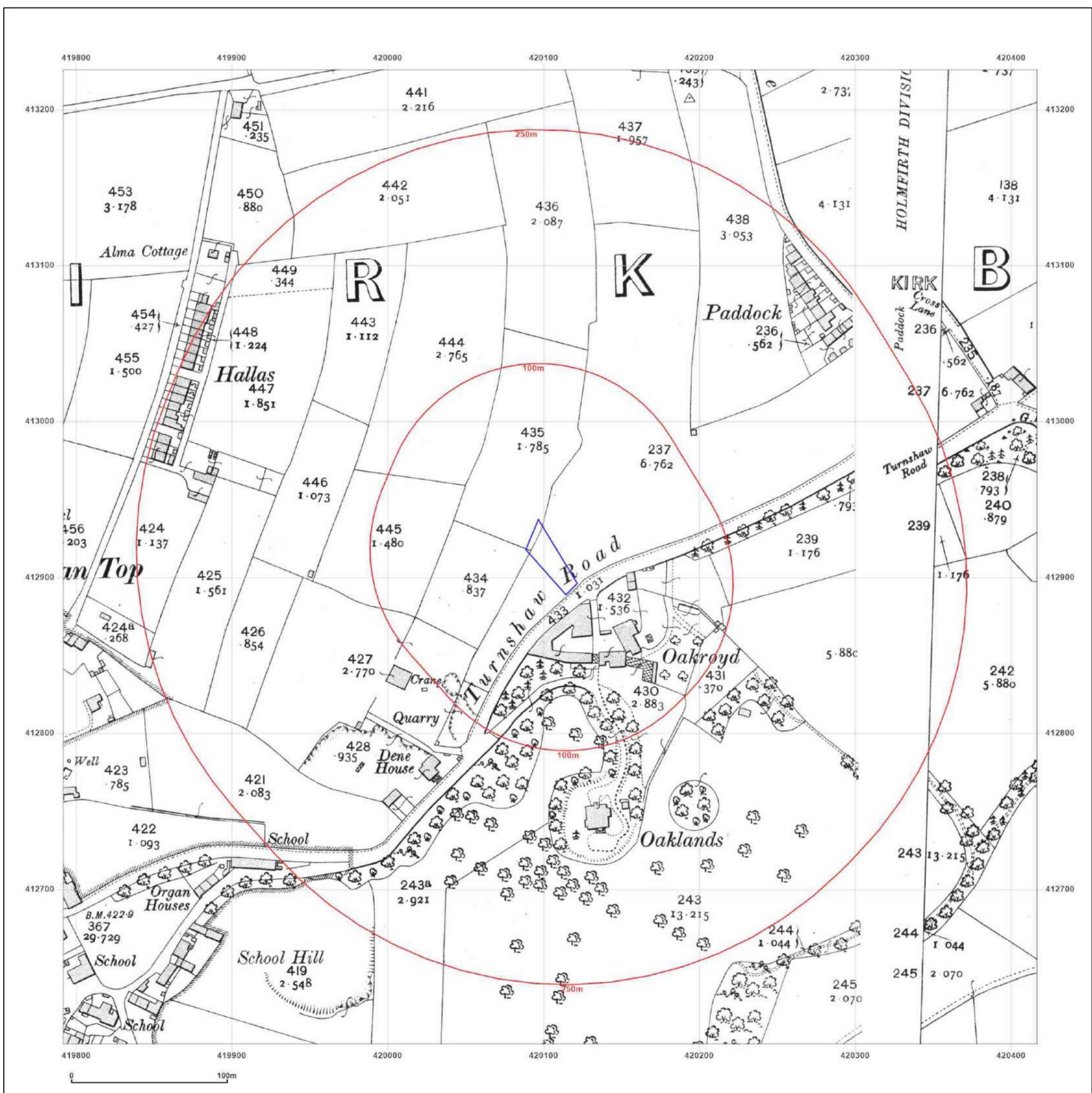


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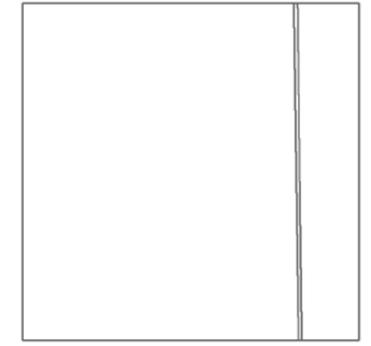
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 KIRKBURTON, HUDDERSFIELD,
 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: County Series
Map date: 1913
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1913
 Revised 1913
 Edition N/A
 Copyright N/A
 Levelled N/A

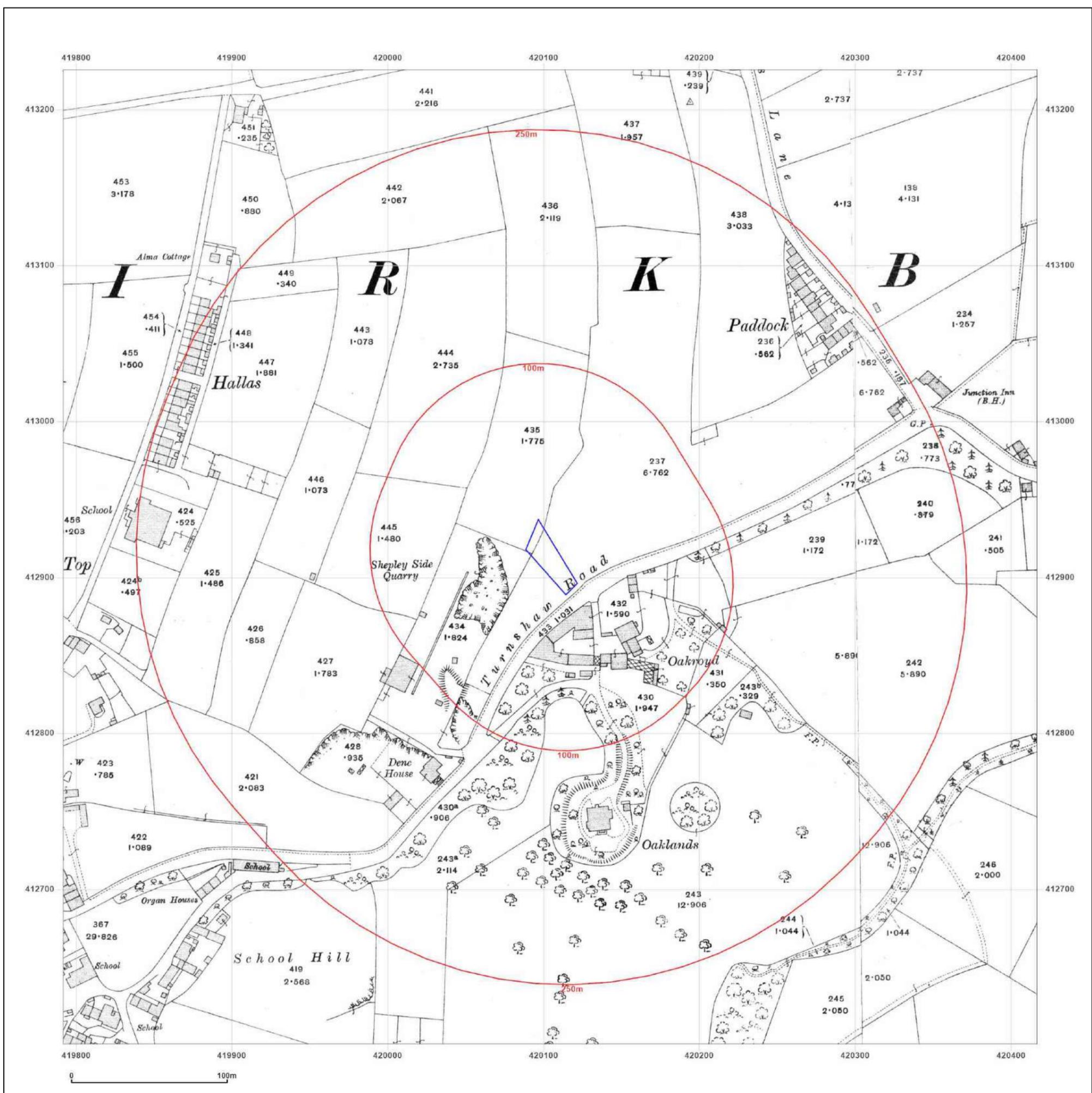


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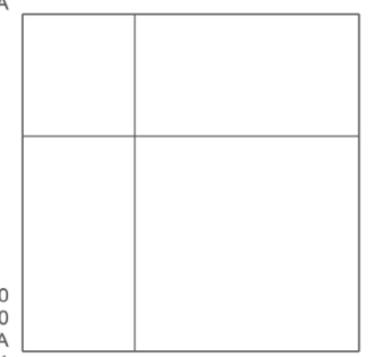
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KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 1960-1961
Scale: 1:2,500
Printed at: 1:2,500



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



Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1931



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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid

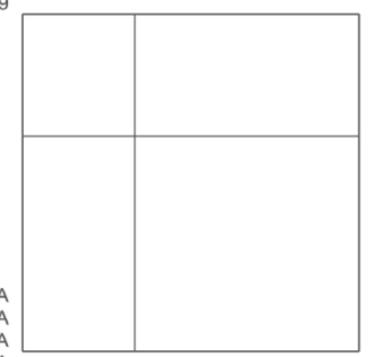
Map date: 1960-1961

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1959



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

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1960
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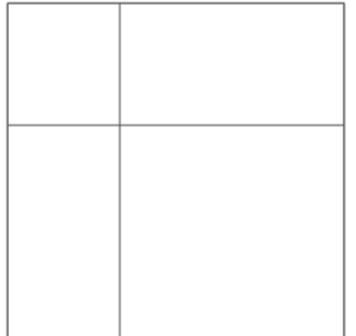


Site Details:
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 KIRKBURTON, HUDDERSFIELD,
 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 1978
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1977 Revised 1977 Edition N/A Copyright 1978 Levelled 1959	Surveyed 1977 Revised 1977 Edition N/A Copyright 1978 Levelled 1959
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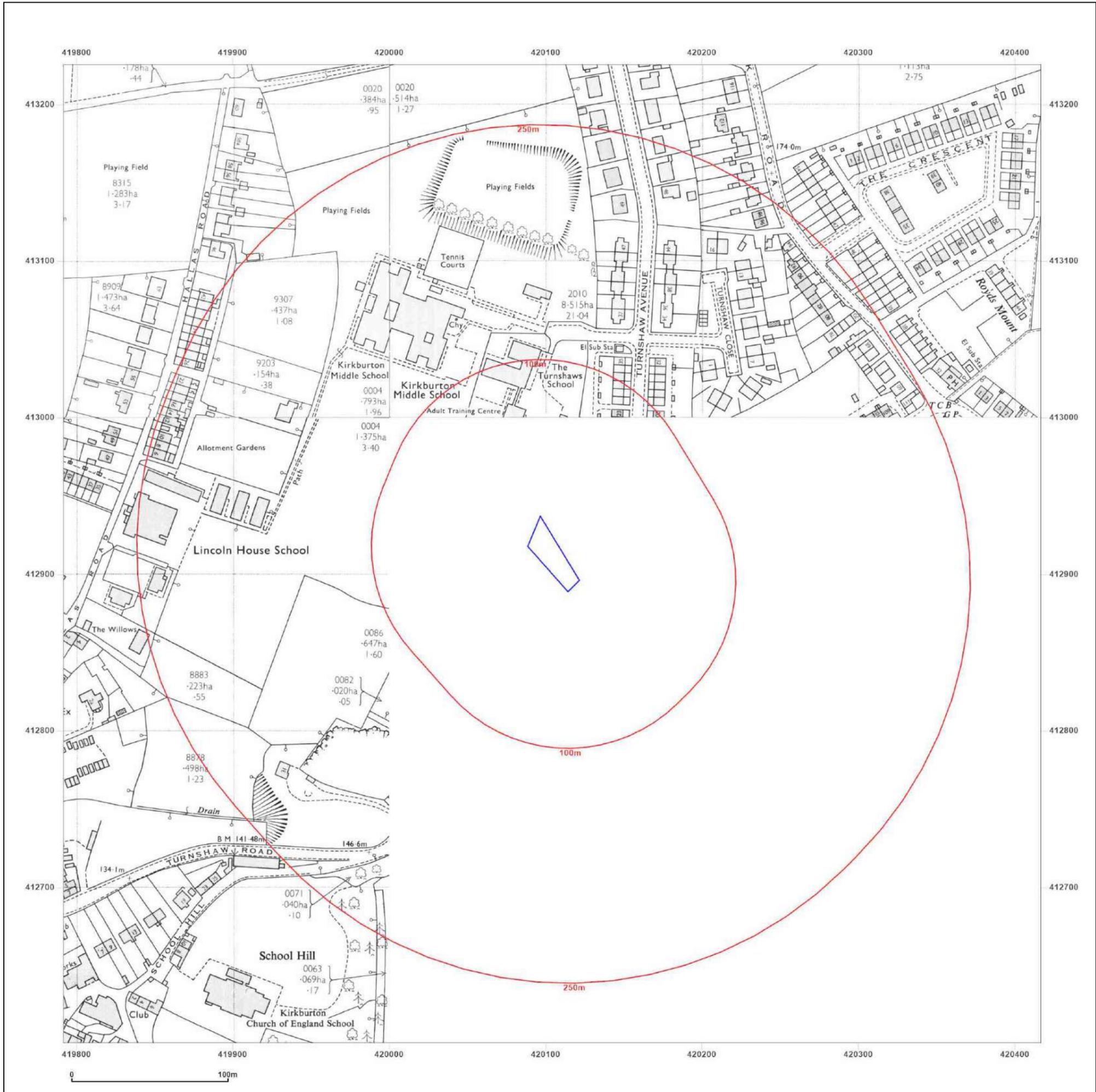
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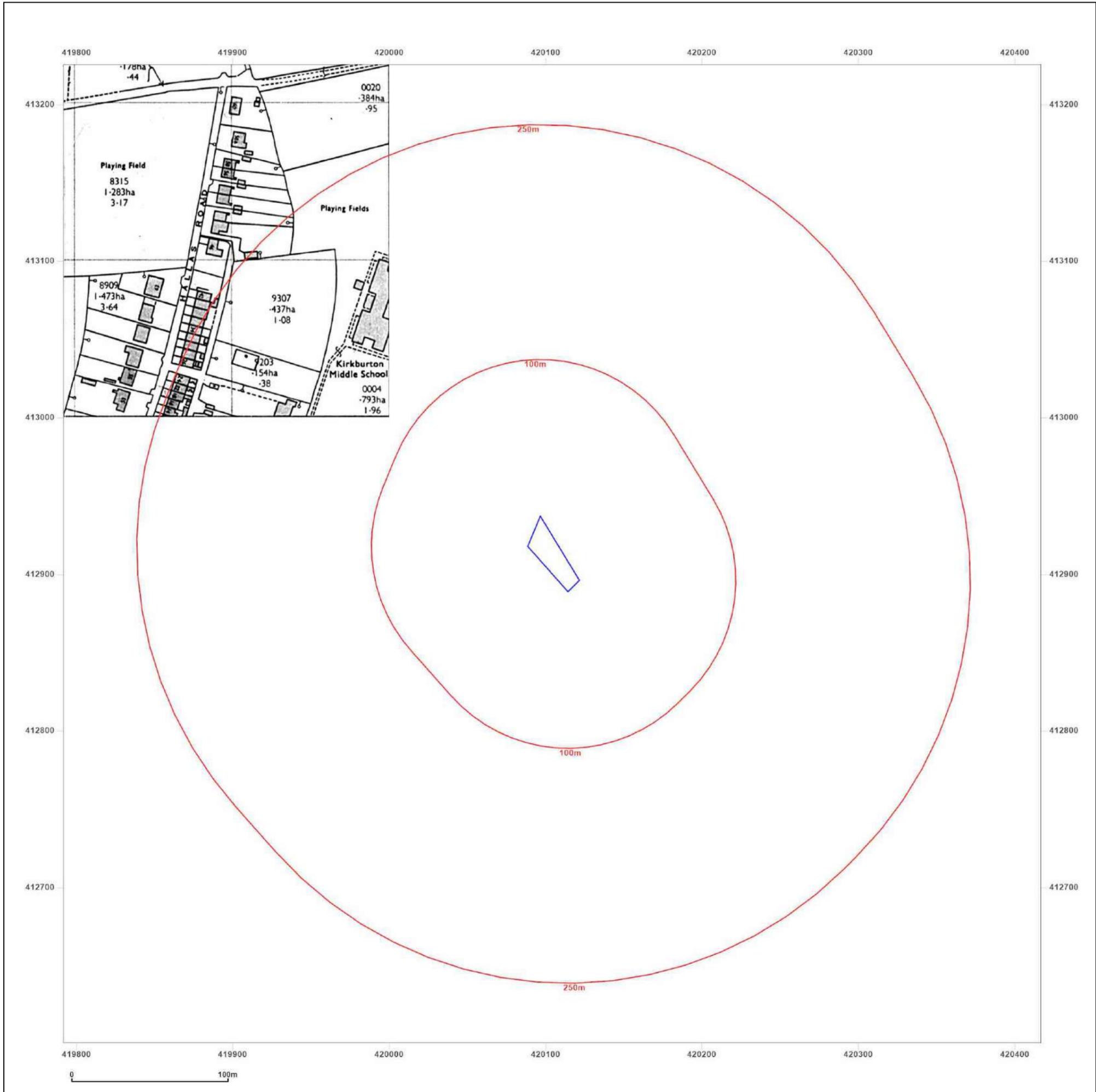
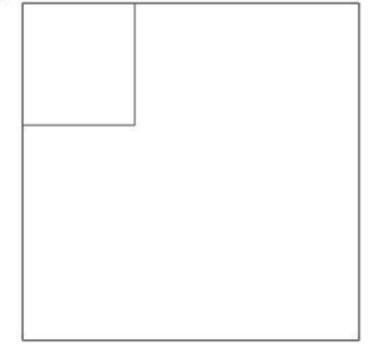
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 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 1978
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1978
 Revised 1978
 Edition N/A
 Copyright 1978
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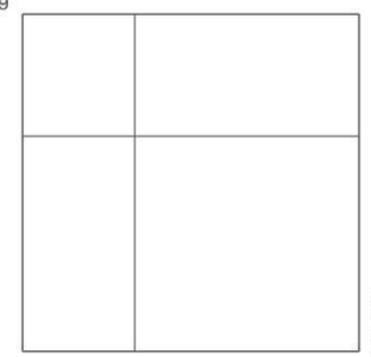
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 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 1983-1984
Scale: 1:2,500
Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1983
 Levelled 1959



Surveyed 1959
 Revised 1984
 Edition N/A
 Copyright 1984
 Levelled 1959

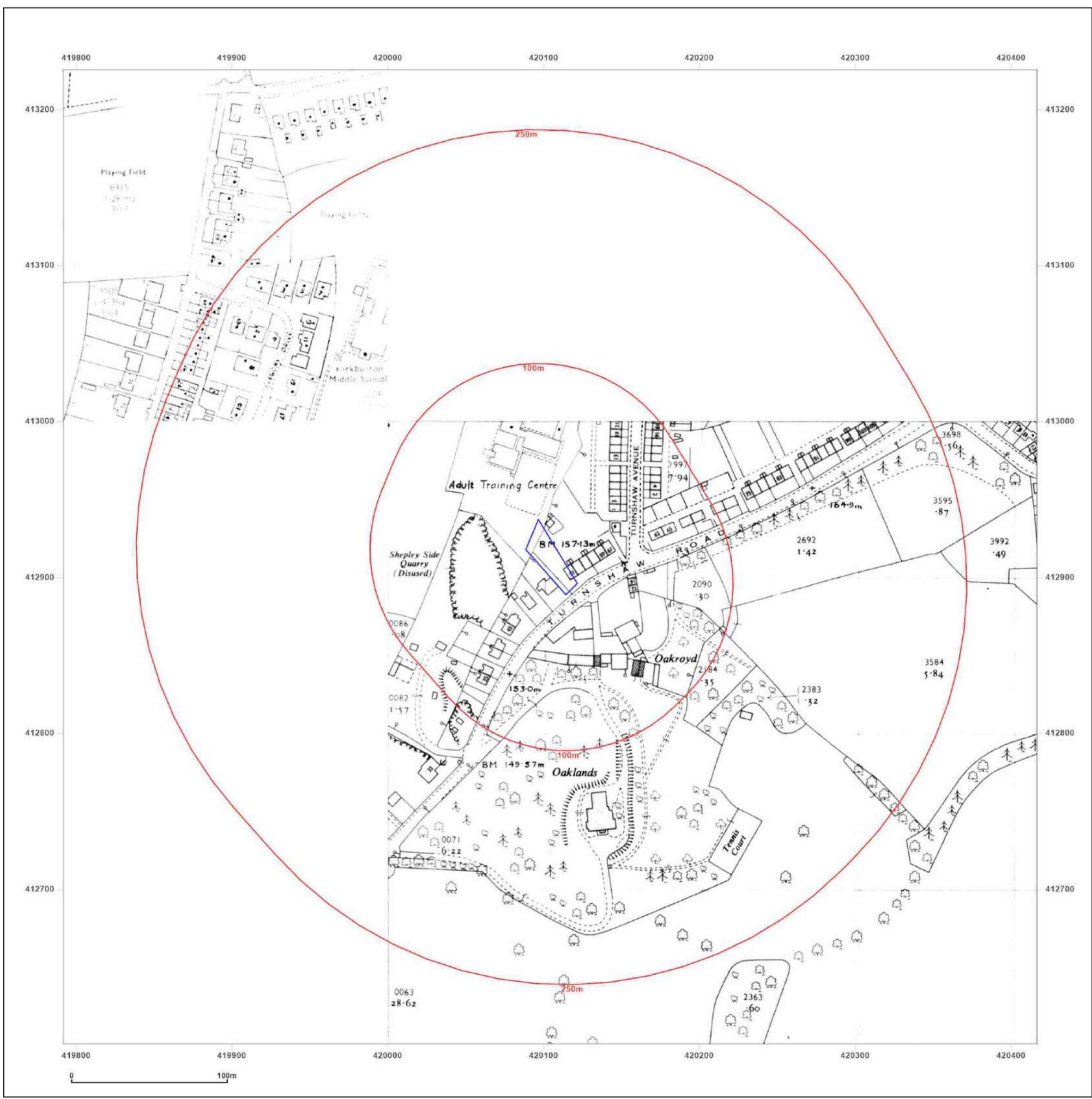


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 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 1985-1990
Scale: 1:2,500
Printed at: 1:2,500



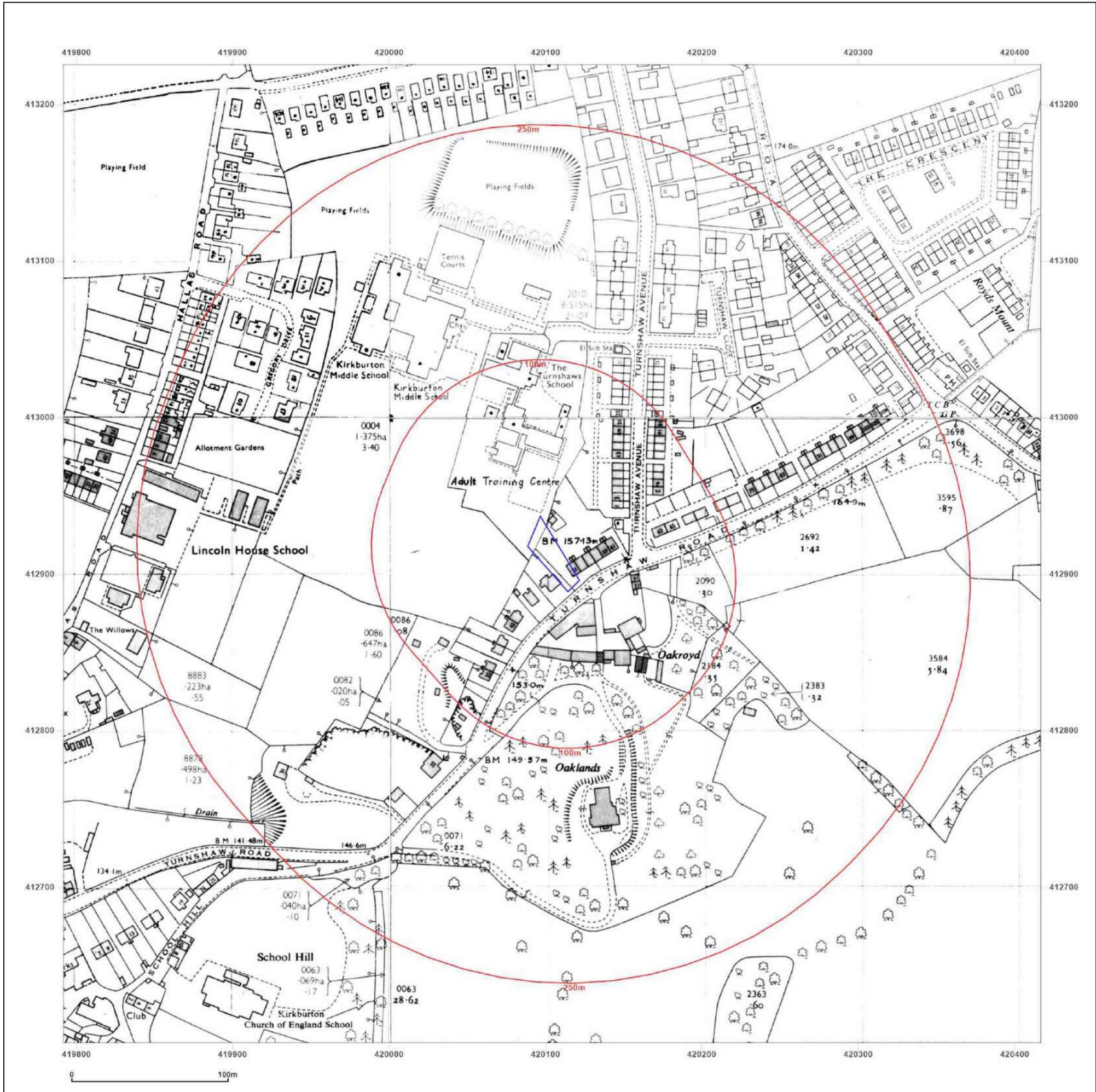
<p>Surveyed 1959 Revised 1985 Edition N/A Copyright 1985 Levelled 1959</p>	<p>Surveyed 1990 Revised 1990 Edition N/A Copyright 1990 Levelled N/A</p>
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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 1988-1992
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1959 Revised 1988 Edition N/A Copyright 1988 Levelled 1959	Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A
Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A	Surveyed 1990 Revised 1990 Edition N/A Copyright 1990 Levelled N/A



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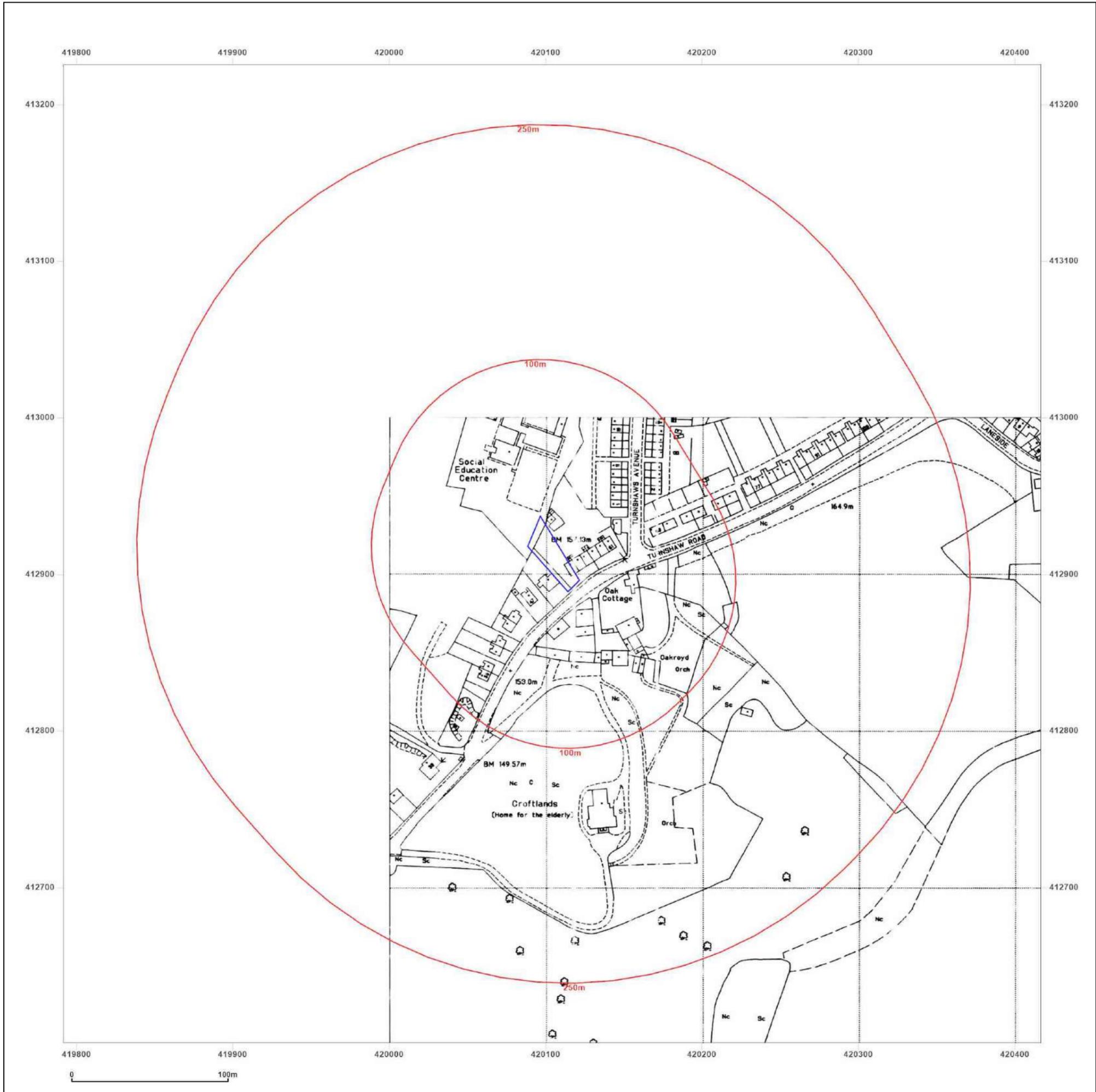
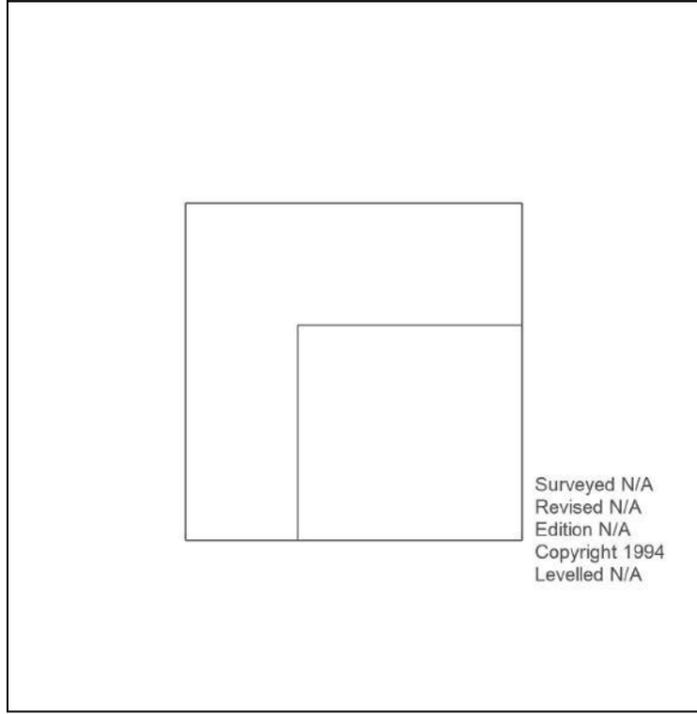


Site Details:

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KIRKBURTON, HUDDERSFIELD,
KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 1994
Scale: 1:2,500
Printed at: 1:2,500



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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid

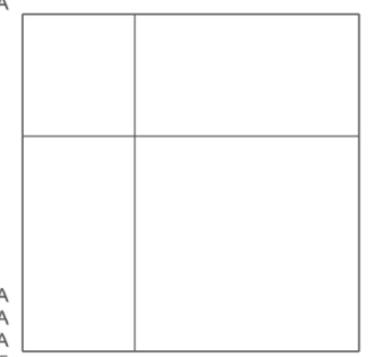
Map date: 1991-1995

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1991
Revised 1991
Edition N/A
Copyright 1991
Levelled N/A



Surveyed N/A
Revised N/A
Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
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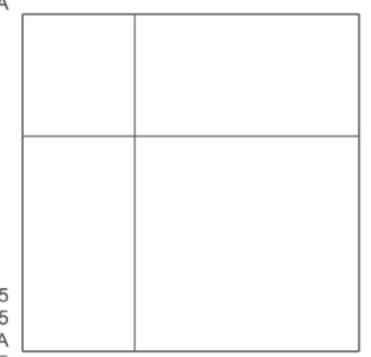
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 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 1992-1995
Scale: 1:2,500
Printed at: 1:2,500



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



Surveyed 1995
 Revised 1995
 Edition N/A
 Copyright 1995
 Levelled N/A

Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright 1994
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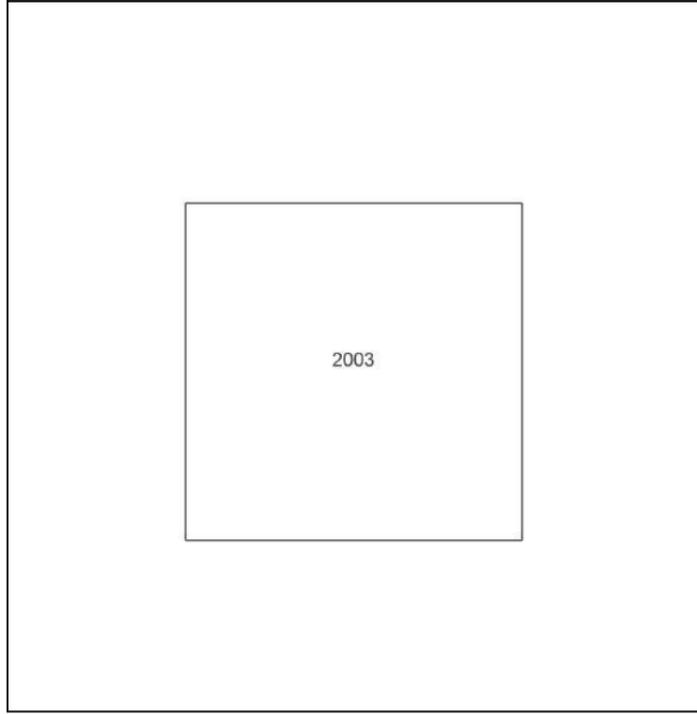
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 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

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



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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: County Series

Map date: 1854

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1850
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A

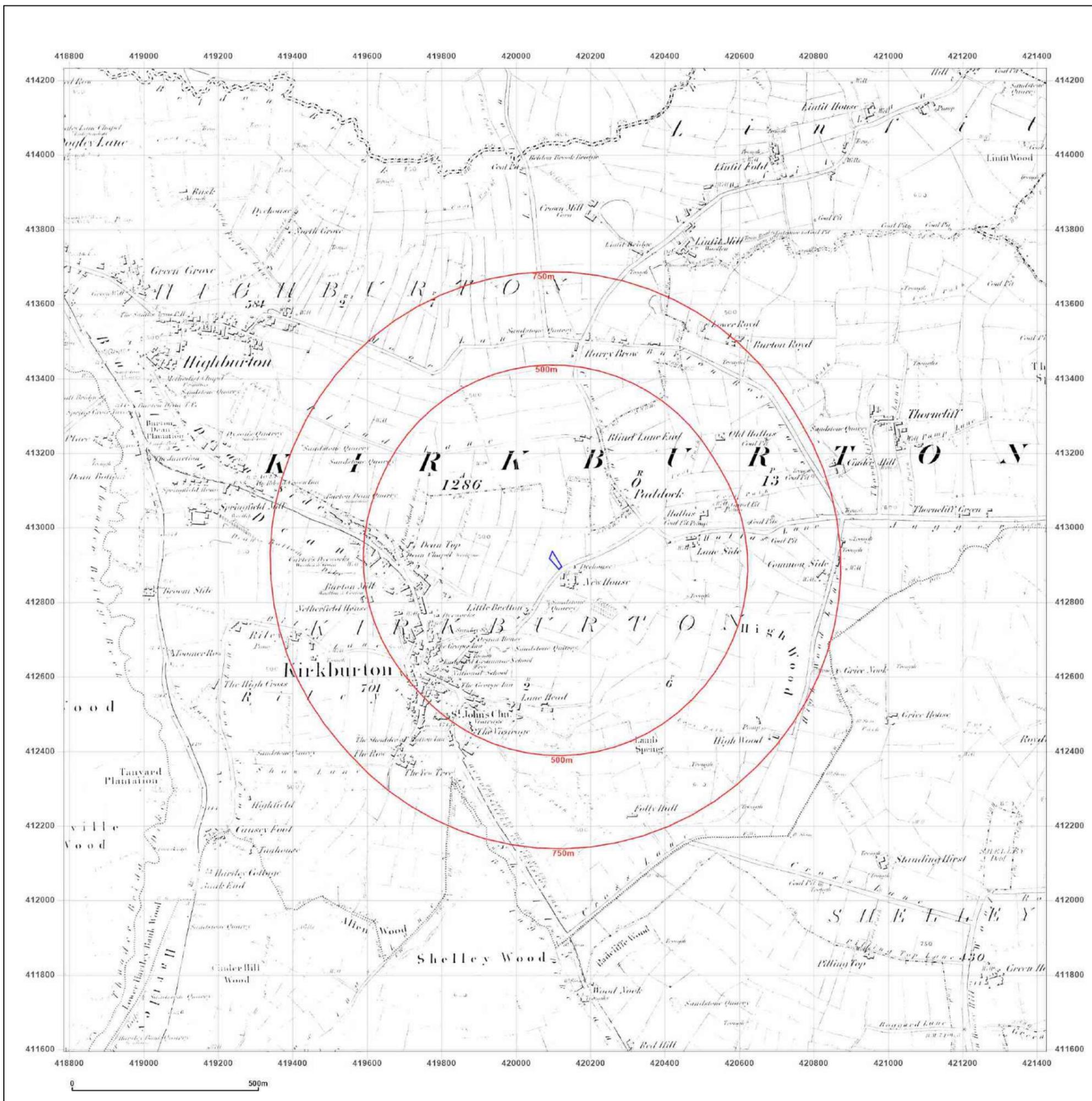


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KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: County Series

Map date: 1892

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1892
Revised 1892
Edition N/A
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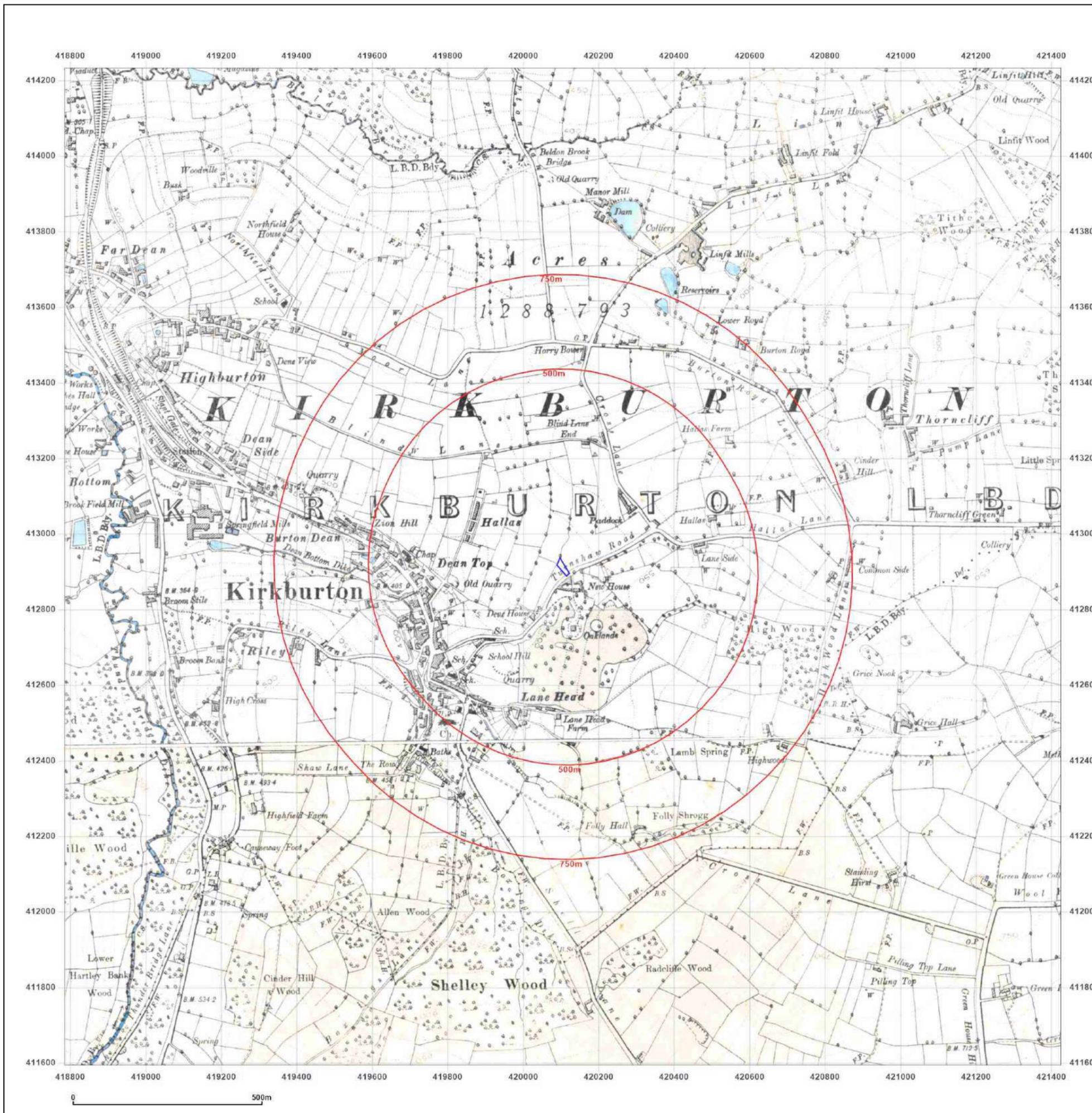


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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: County Series

Map date: 1904

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1892
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1904
Edition N/A
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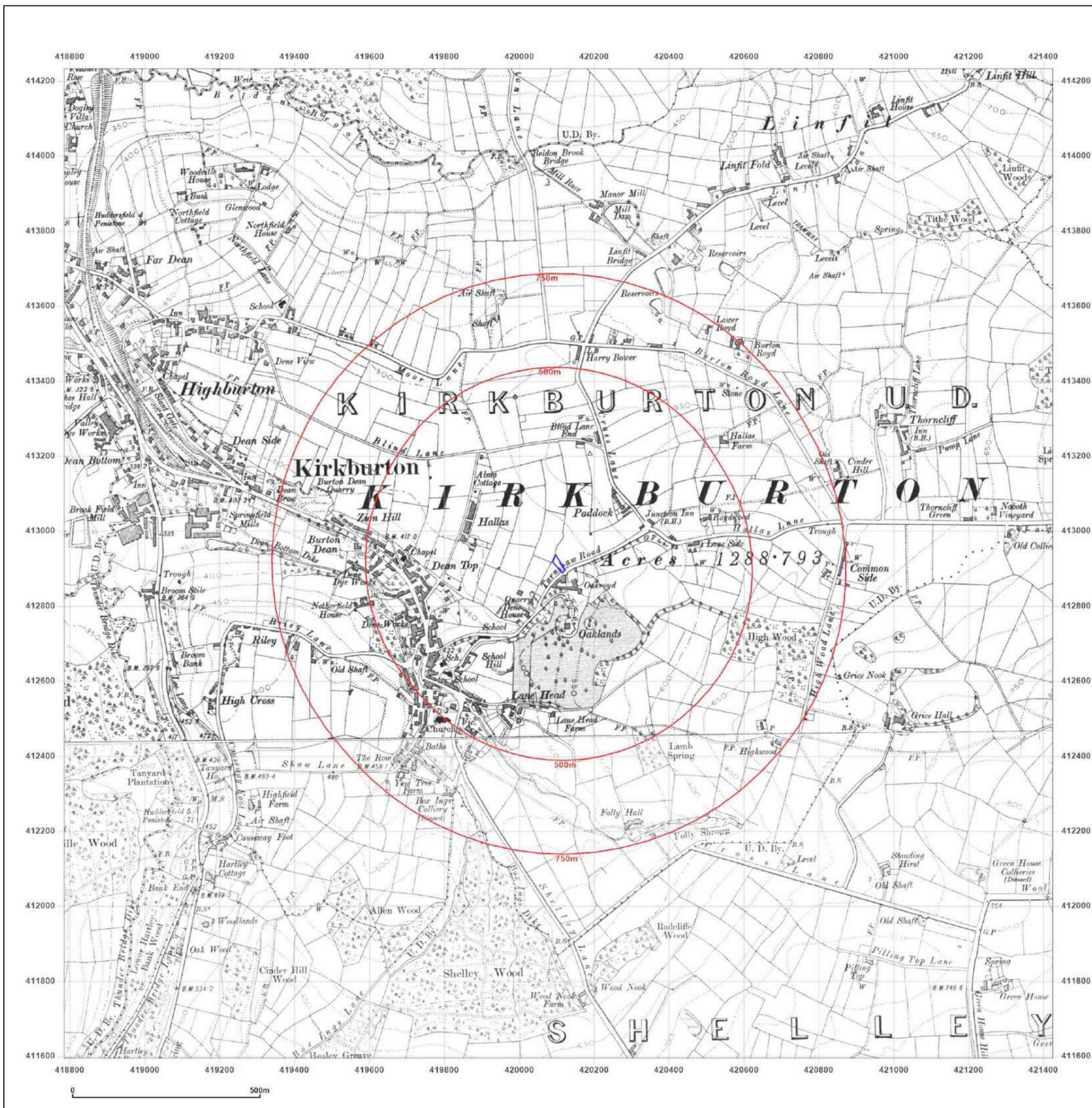


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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: County Series

Map date: 1930-1932

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1851
Revised 1932
Edition 1932
Copyright N/A
Levelled N/A

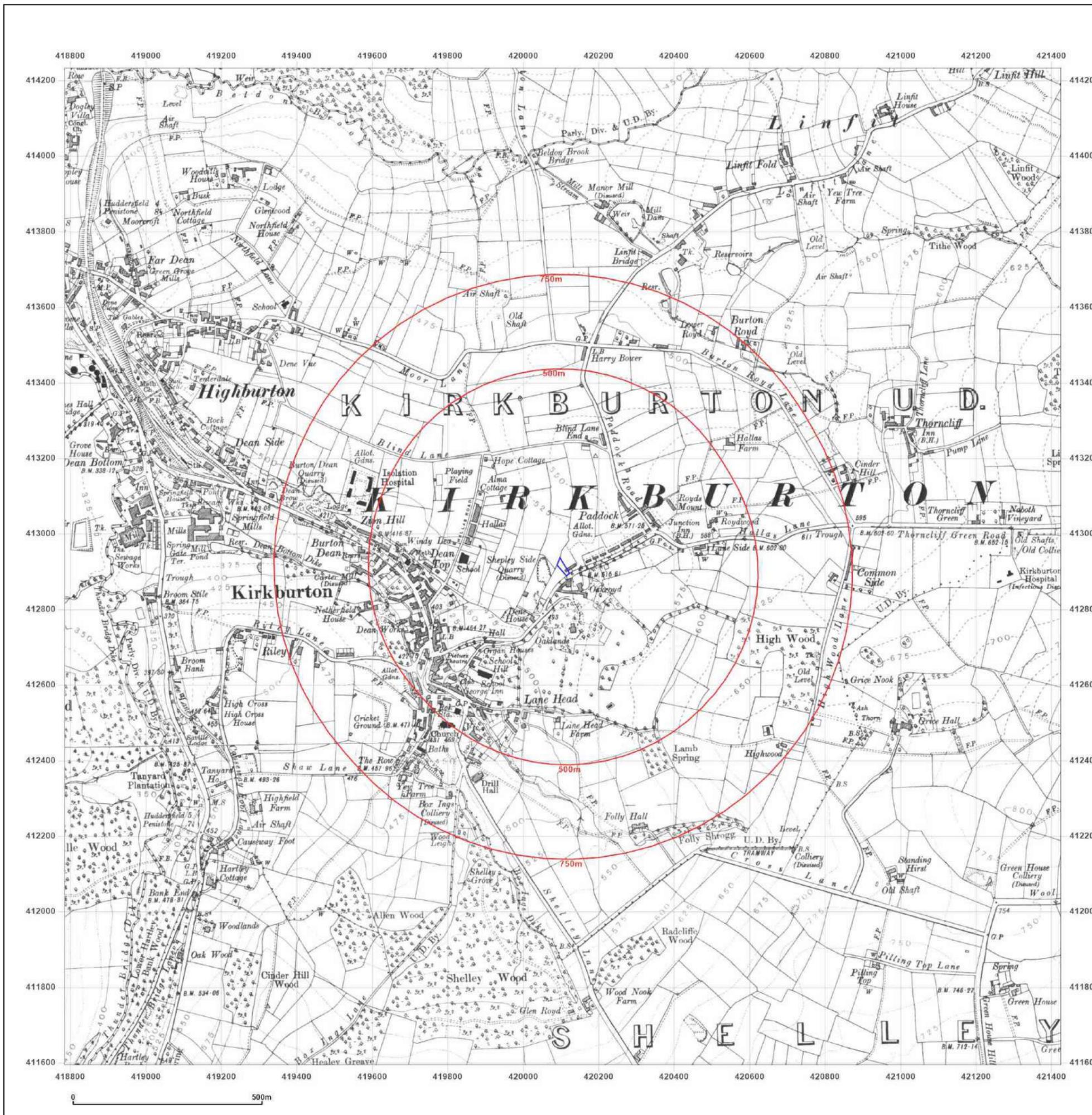


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KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



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

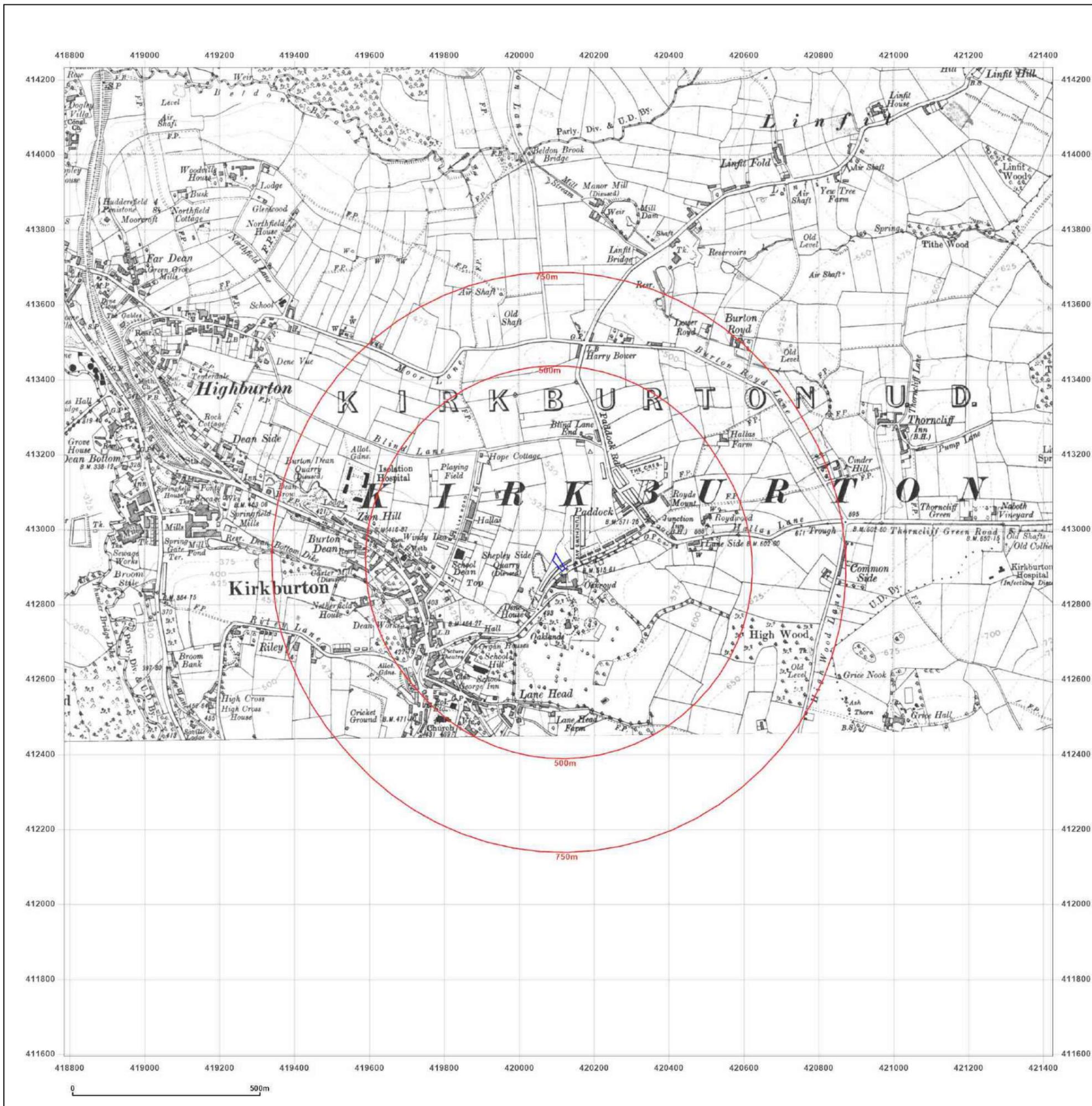


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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



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

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

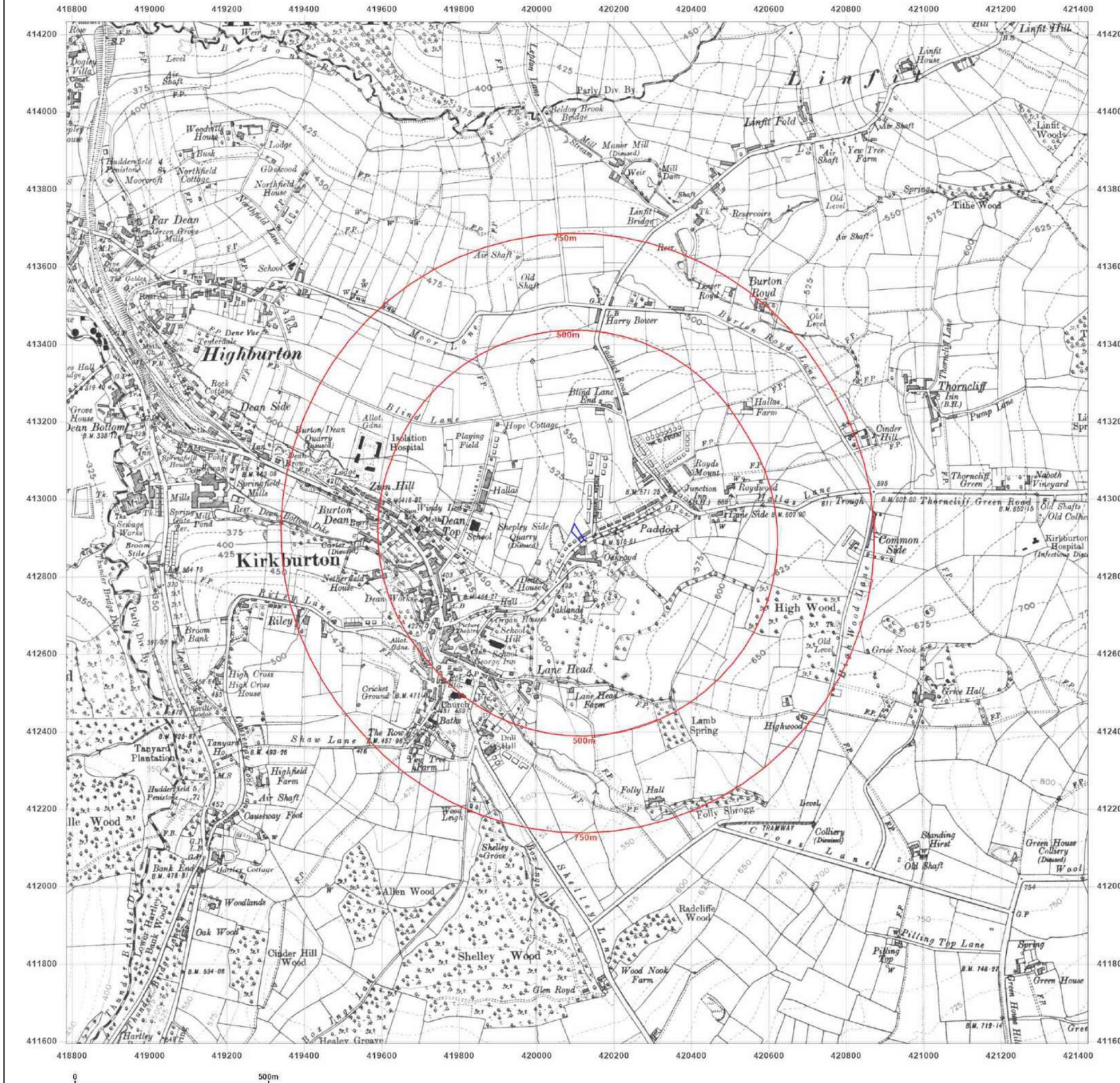


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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: Provisional

Map date: 1955

Scale: 1:10,560

Printed at: 1:10,560



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

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

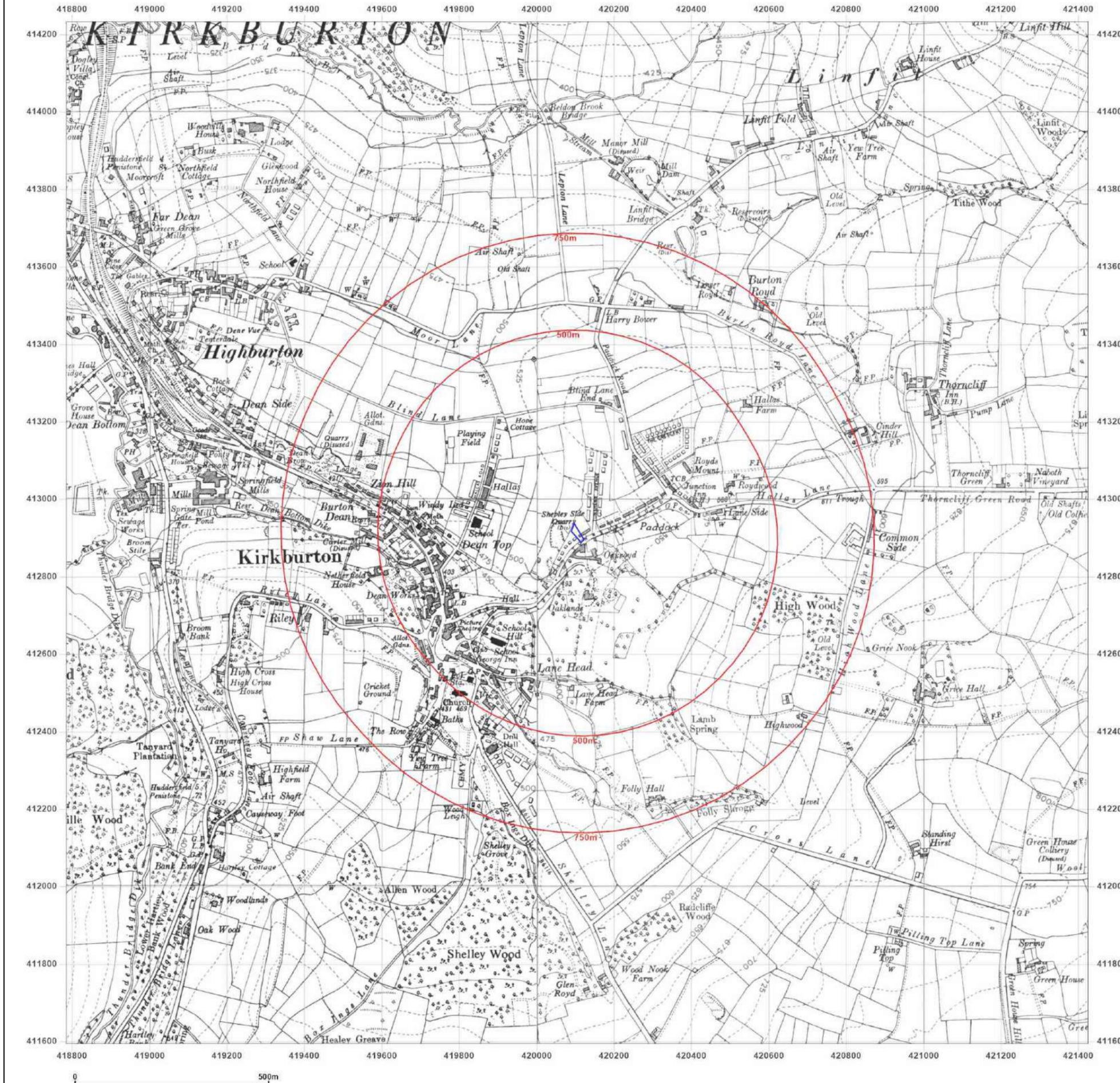


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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: Provisional

Map date: 1967-1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

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

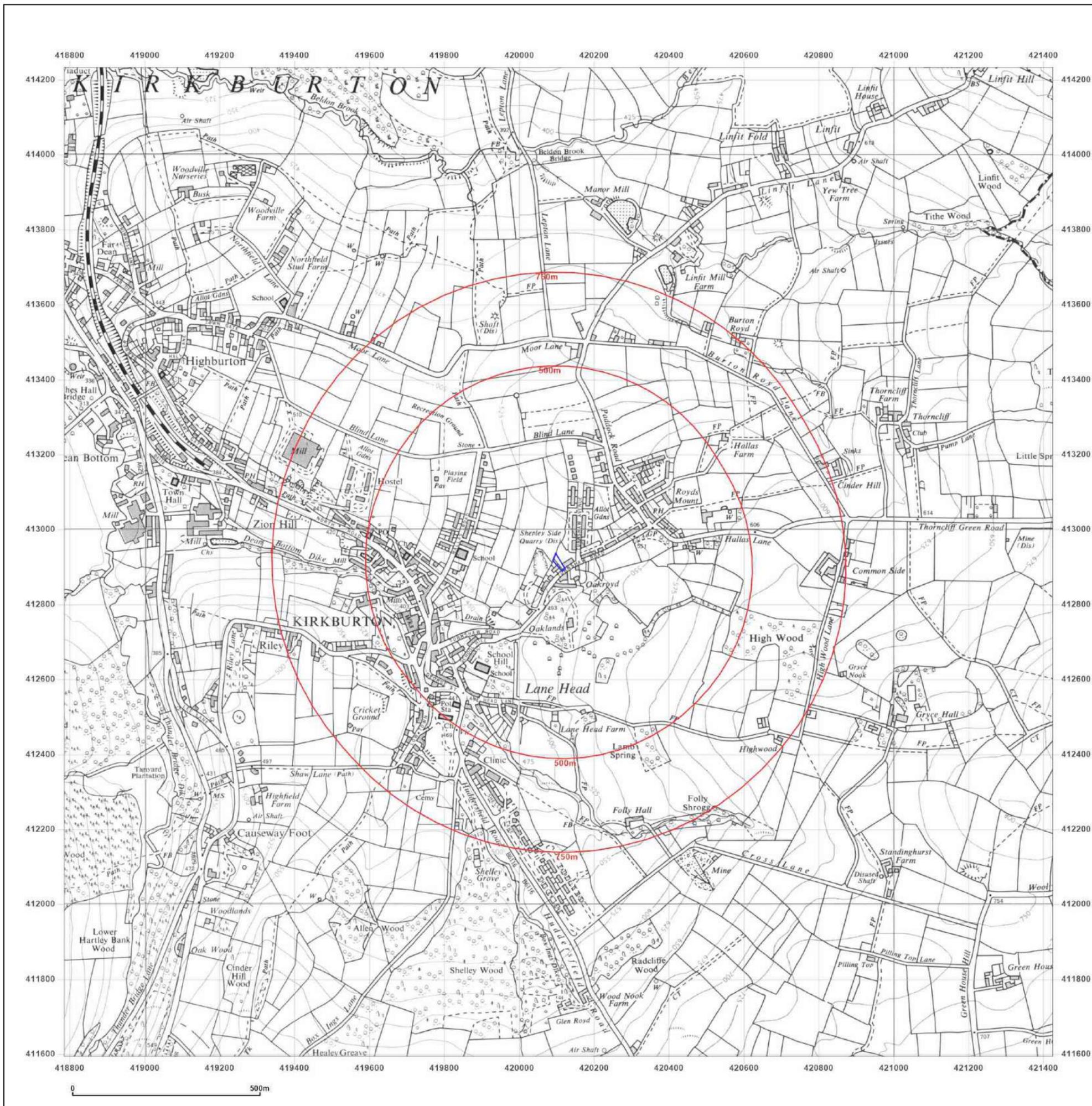


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Site Details:

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Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid

Map date: 1977-1979

Scale: 1:10,000

Printed at: 1:10,000



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

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

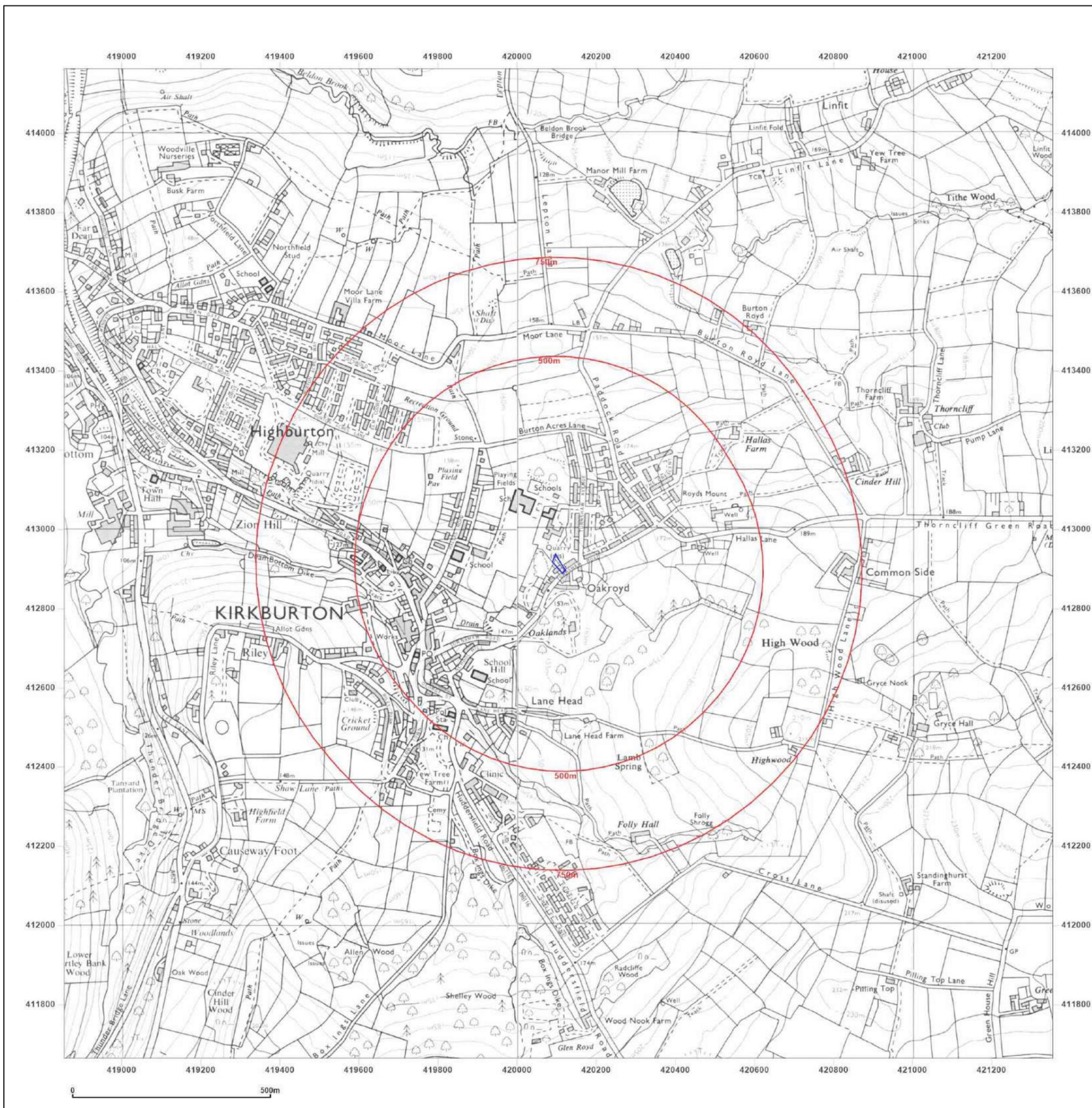


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Site Details:
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 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 1990-1993
Scale: 1:10,000
Printed at: 1:10,000



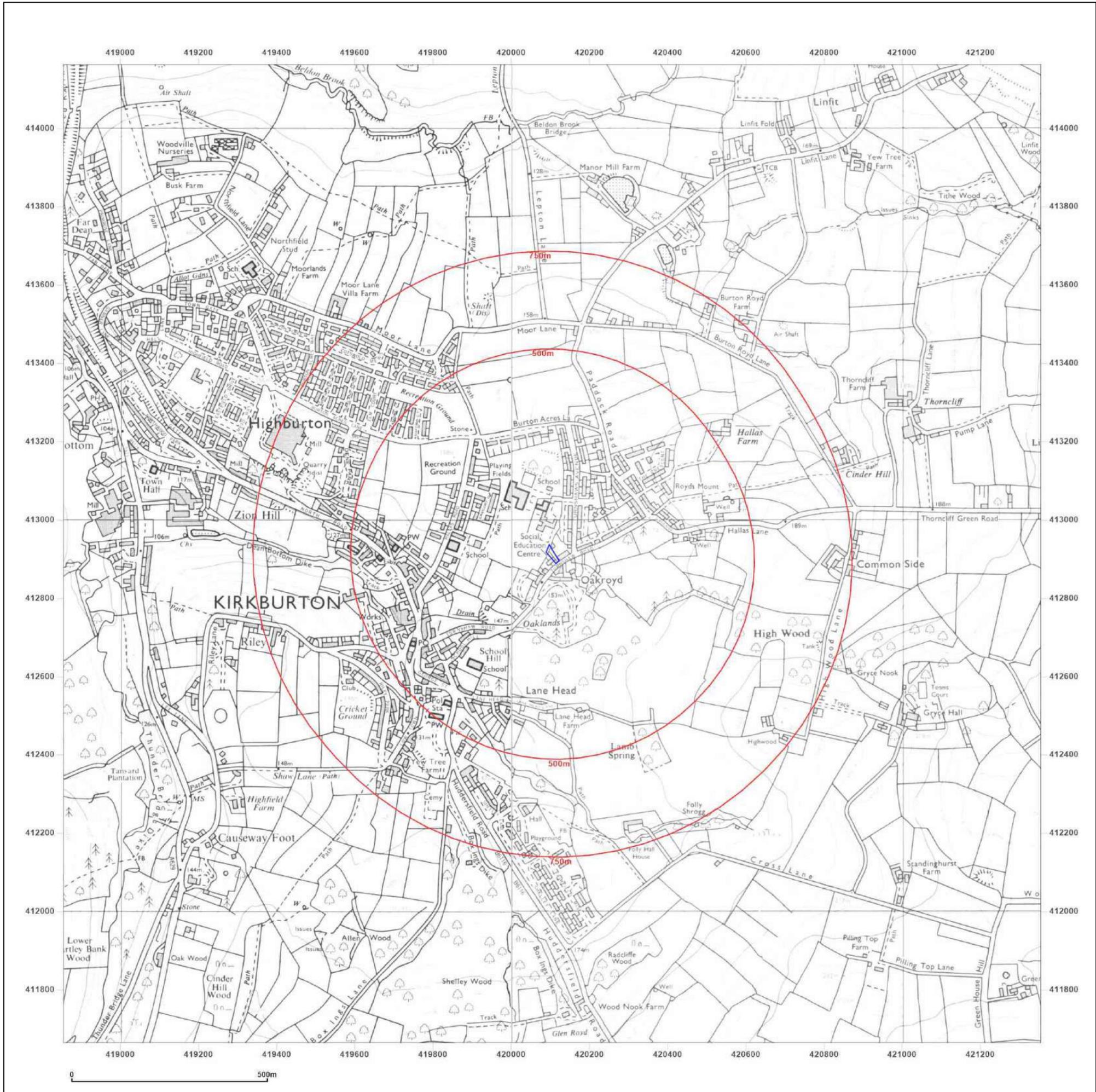
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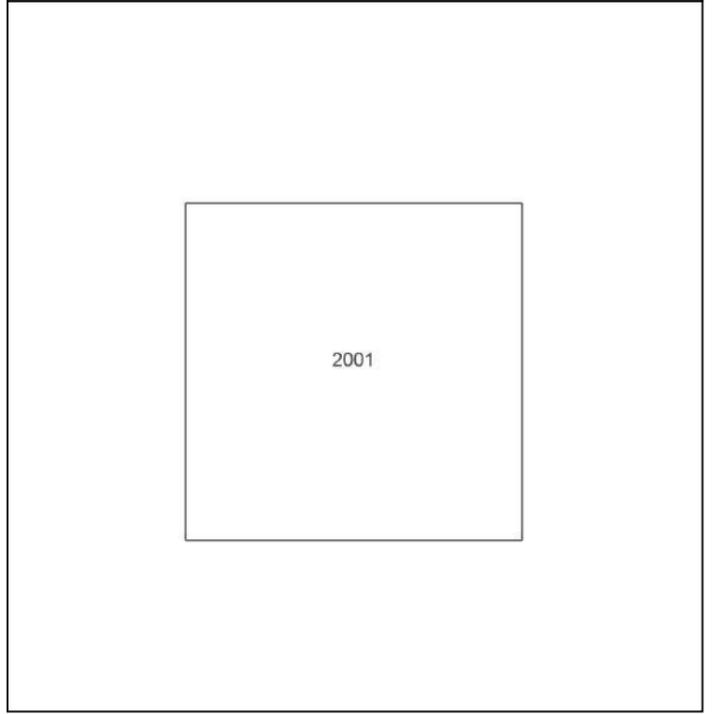
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Site Details:
 51, TURNSHAW ROAD,
 KIRKBURTON, HUDDERSFIELD,
 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

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



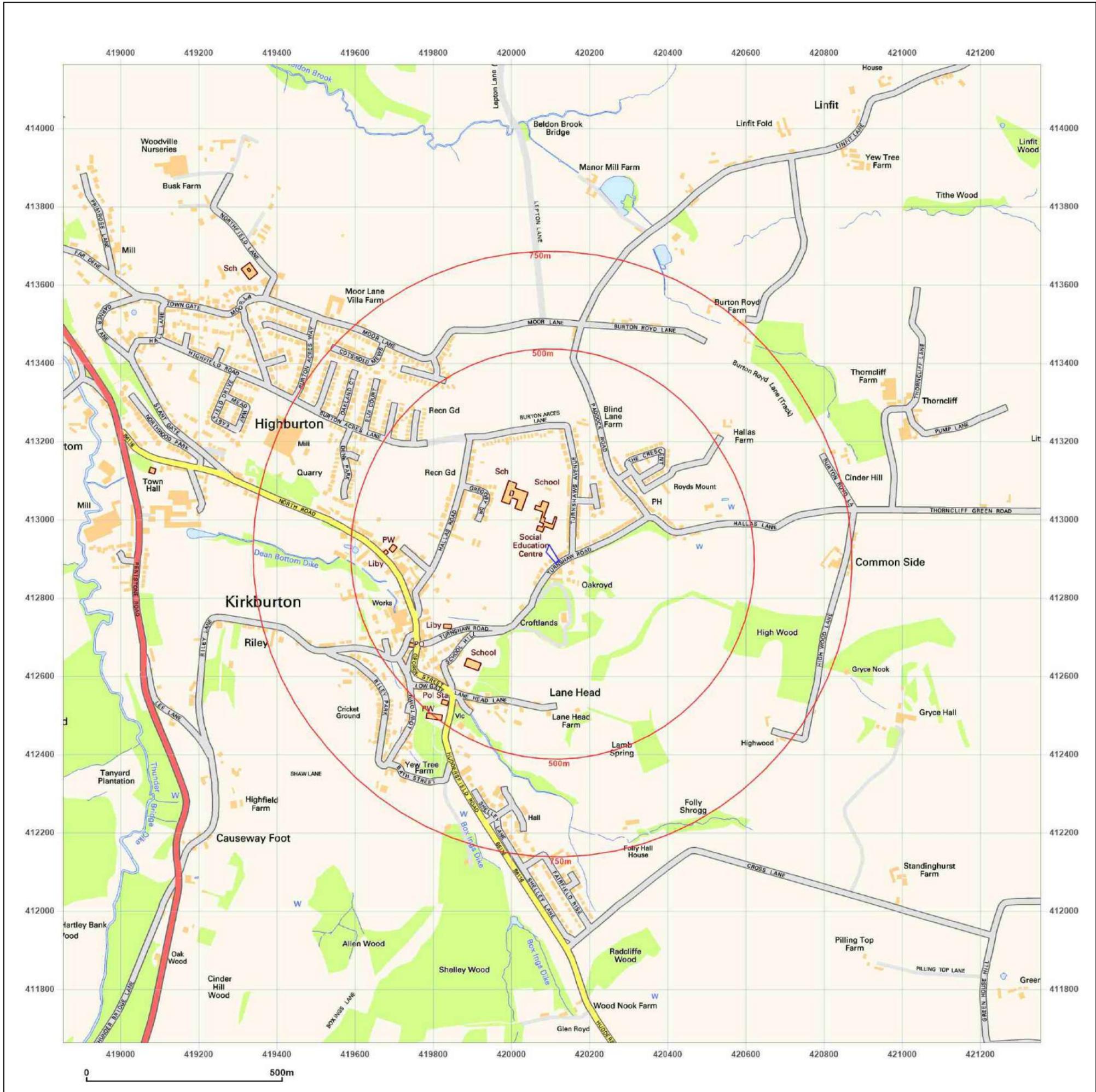
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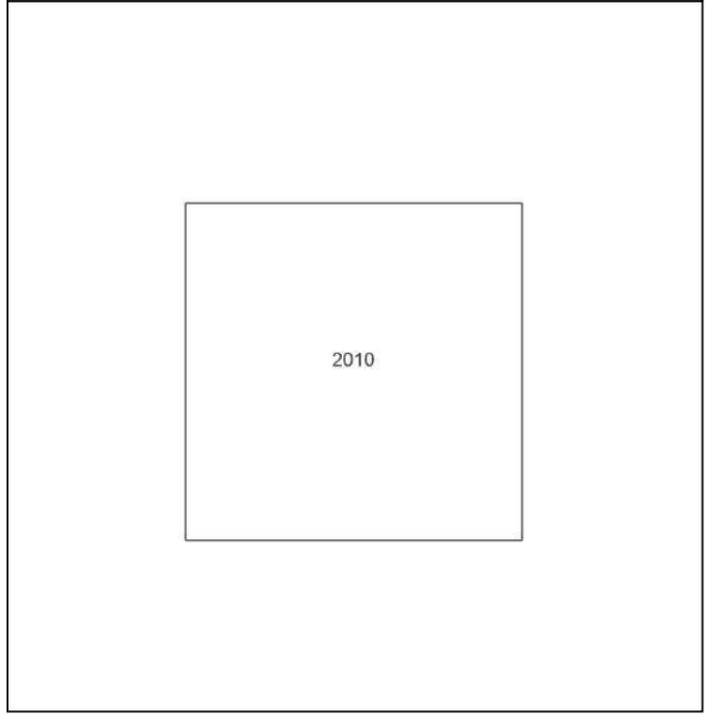
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Site Details:
 51, TURNSHAW ROAD,
 KIRKBURTON, HUDDERSFIELD,
 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

Map Name: National Grid
Map date: 2010
Scale: 1:10,000
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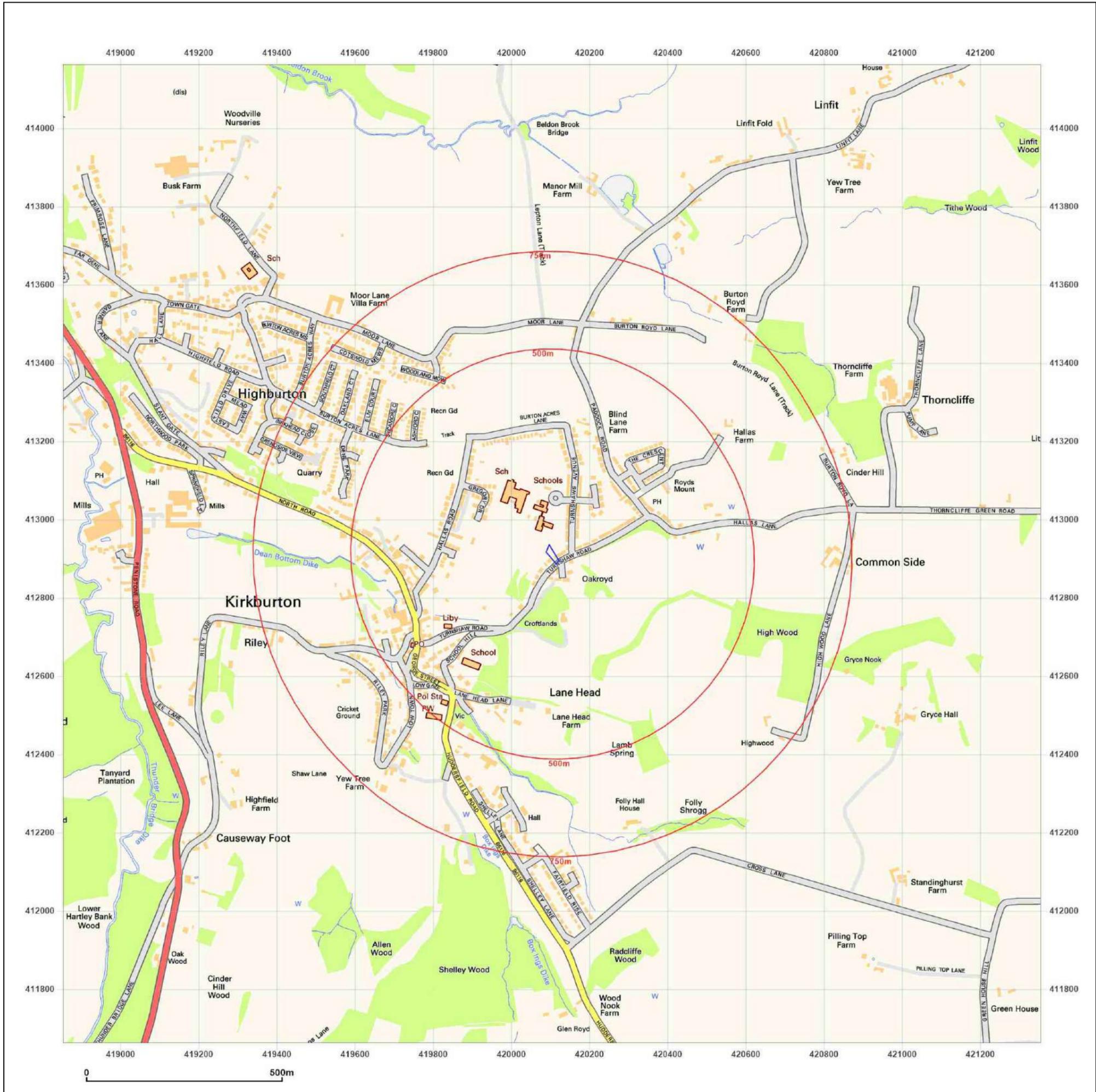


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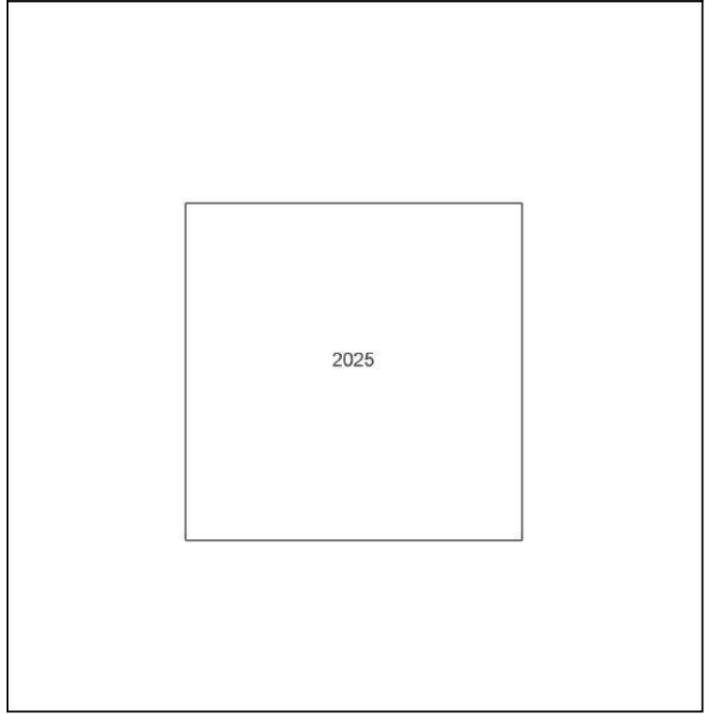
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Site Details:
 51, TURNSHAW ROAD,
 KIRKBURTON, HUDDERSFIELD,
 KIRKLEES, HD8 0TH

Client Ref: C757
Report Ref: GS-NJO-B6Q-PMQ-LBY
Grid Ref: 420104, 412913

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



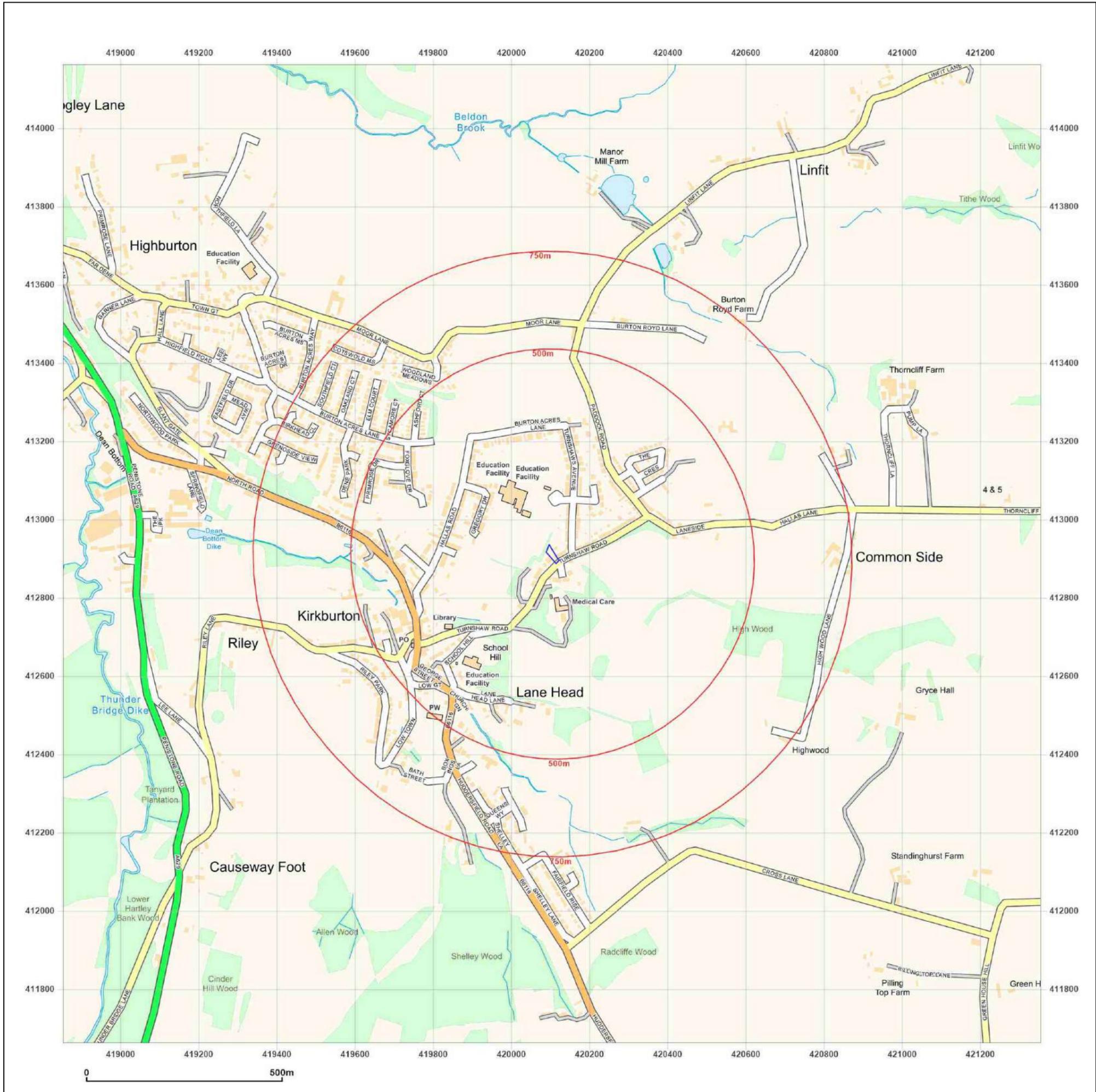
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51, TURNSHAW ROAD, KIRKBURTON, HUDDERSFIELD, KIRKLEES, HD8 0TH

Order Details

Date: 01/04/2025
Your ref: C757
Our Ref: GS-SIL-53Y-BPI-UY3

Site Details

Location: 420104 412911
Area: 0.06 ha
Authority: [Kirklees Council](#) ↗



[Summary of findings](#)

[p. 2 > Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.13 > Insight User Guide](#) ↗

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	0	3	5	21	-
16 >	1.2 >	Historical tanks >	0	0	0	2	-
16 >	1.3 >	Historical energy features >	0	0	1	3	-
17	1.4	Historical petrol stations	0	0	0	0	-
17 >	1.5 >	Historical garages >	0	0	0	2	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
18 >	2.1 >	Historical industrial land uses >	0	5	8	26	-
20 >	2.2 >	Historical tanks >	0	0	0	2	-
20 >	2.3 >	Historical energy features >	0	0	2	5	-
21	2.4	Historical petrol stations	0	0	0	0	-
21 >	2.5 >	Historical garages >	0	0	0	3	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
22	3.1	Active or recent landfill	0	0	0	0	-
22	3.2	Historical landfill (BGS records)	0	0	0	0	-
22	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
22	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
22	3.5	Historical waste sites	0	0	0	0	-
23	3.6	Licensed waste sites	0	0	0	0	-
23	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	4.1 >	Recent industrial land uses >	0	0	3	-	-
25 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
25	4.3	Electricity cables	0	0	0	0	-
25	4.4	Gas pipelines	0	0	0	0	-
25	4.5	Sites determined as Contaminated Land	0	0	0	0	-



25	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-	
26	4.7	Regulated explosive sites	0	0	0	0	-	
26	4.8	Hazardous substance storage/usage	0	0	0	0	-	
26	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-	
26	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-	
26	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-	
27	4.12	Radioactive Substance Authorisations	0	0	0	0	-	
27	4.13	Licensed Discharges to controlled waters	0	0	0	0	-	
27	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-	
27	4.15	Pollutant release to public sewer	0	0	0	0	-	
27	4.16	List 1 Dangerous Substances	0	0	0	0	-	
28	4.17	List 2 Dangerous Substances	0	0	0	0	-	
28 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	0	0	5	-	
29	4.19	Pollution inventory substances	0	0	0	0	-	
29	4.20	Pollution inventory waste transfers	0	0	0	0	-	
29	4.21	Pollution inventory radioactive waste	0	0	0	0	-	
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m	
30	5.1	Superficial aquifer	None (within 500m)					
31 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)					
33 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)					
34	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)					
34	5.5	Groundwater vulnerability- local information	None (within 0m)					
35 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	34	
43 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	0	7	
45 >	5.8 >	<u>Potable abstractions ></u>	0	0	0	0	11	
48	5.9	Source Protection Zones	0	0	0	0	-	
48	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-	
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m	
49 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	0	0	1	-	-	



50 >	6.2 >	Surface water features >	0	0	1	-	-
50 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
50 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
51 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
52	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
52	7.2	Historical Flood Events	0	0	0	-	-
52	7.3	Flood Defences	0	0	0	-	-
53	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
53	7.5	Flood Storage Areas	0	0	0	-	-
54	7.6	Flood Zone 2	None (within 50m)				
54	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
55 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
57 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
58	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
59	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
59	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
59	10.4	Special Protection Areas (SPA)	0	0	0	0	0
59	10.5	National Nature Reserves (NNR)	0	0	0	0	0
60	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
60 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	9
60	10.8	Biosphere Reserves	0	0	0	0	0
61	10.9	Forest Parks	0	0	0	0	0
61	10.10	Marine Conservation Zones	0	0	0	0	0
61 >	10.11 >	Green Belt >	0	1	0	0	0
61	10.12	Proposed Ramsar sites	0	0	0	0	0



62	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
62	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
62	10.15	Nitrate Sensitive Areas	0	0	0	0	0
62 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	1
64 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
65	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
66	11.1	World Heritage Sites	0	0	0	-	-
67	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
67	11.3	National Parks	0	0	0	-	-
67 >	11.4 >	Listed Buildings >	0	0	2	-	-
68 >	11.5 >	Conservation Areas >	0	0	1	-	-
68	11.6	Scheduled Ancient Monuments	0	0	0	-	-
68	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
69 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
70	12.2	Open Access Land	0	0	0	-	-
70	12.3	Tree Felling Licences	0	0	0	-	-
70	12.4	Environmental Stewardship Schemes	0	0	0	-	-
70	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
71 >	13.1 >	Priority Habitat Inventory >	0	0	5	-	-
72	13.2	Habitat Networks	0	0	0	-	-
72	13.3	Open Mosaic Habitat	0	0	0	-	-
72	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
73 >	14.1 >	10k Availability >	Identified (within 500m)				
74 >	14.2 >	Artificial and made ground (10k) >	0	1	9	1	-
76	14.3	Superficial geology (10k)	0	0	0	0	-



76	14.4	Landslip (10k)	0	0	0	0	-
77 >	14.5 >	Bedrock geology (10k) >	1	1	4	15	-
78 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	0	11	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
80 >	15.1 >	50k Availability >	Identified (within 500m)				
81	15.2	Artificial and made ground (50k)	0	0	0	0	-
81	15.3	Artificial ground permeability (50k)	0	0	-	-	-
82	15.4	Superficial geology (50k)	0	0	0	0	-
82	15.5	Superficial permeability (50k)	None (within 50m)				
82	15.6	Landslip (50k)	0	0	0	0	-
82	15.7	Landslip permeability (50k)	None (within 50m)				
83 >	15.8 >	Bedrock geology (50k) >	1	2	4	20	-
85 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
85 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	0	11	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
87 >	16.1 >	BGS Boreholes >	0	0	8	-	-
Page	Section	Natural ground subsidence >					
89 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
90 >	17.2 >	Running sands >	Negligible (within 50m)				
91 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
92 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
93 >	17.5 >	Landslides >	Very low (within 50m)				
94 >	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
96 >	18.1 >	BritPits >	0	1	2	3	-
98 >	18.2 >	Surface ground workings >	0	5	8	-	-
98 >	18.3 >	Underground workings >	0	0	0	0	23
99	18.4	Underground mining extents	0	0	0	0	-
100	18.5	Historical Mineral Planning Areas	0	0	0	0	-



100	18.6	Non-coal mining	0	0	0	0	0
100	18.7	JPB mining areas	None (within 0m)				
100	18.8	The Coal Authority non-coal mining	0	0	0	0	-
101	18.9	Researched mining	0	0	0	0	-
101	18.10	Mining record office plans	0	0	0	0	-
101	18.11	BGS mine plans	0	0	0	0	-
101 >	18.12 >	Coal mining >	Identified (within 0m)				
102	18.13	Brine areas	None (within 0m)				
102	18.14	Gypsum areas	None (within 0m)				
102	18.15	Tin mining	None (within 0m)				
102	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
103	19.1	Natural cavities	0	0	0	0	-
103	19.2	Mining cavities	0	0	0	0	0
103	19.3	Reported recent incidents	0	0	0	0	-
103	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
105 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
107 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	2	-	-	-
107	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	-	-
108	22.3	Railway tunnels	0	0	0	-	-
108	22.4	Historical railway and tunnel features	0	0	0	-	-
108	22.5	Royal Mail tunnels	0	0	0	-	-
109	22.6	Historical railways	0	0	0	-	-



109	22.7	Railways	0	0	0	-	-
109	22.8	Crossrail 2	0	0	0	0	-
109	22.9	HS2	0	0	0	0	-



Recent aerial photograph



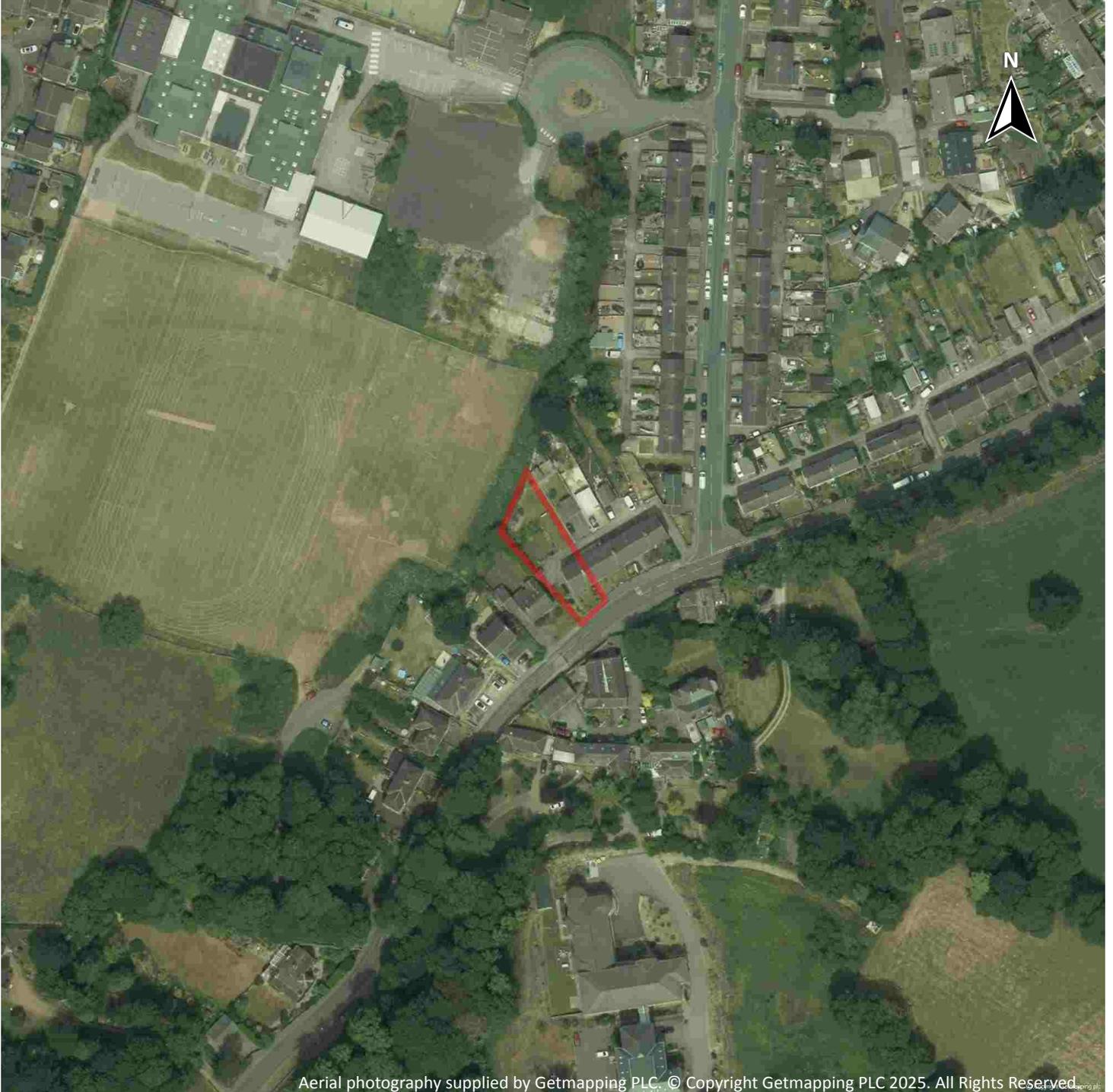
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Capture Date: 30/05/2021

Site Area: 0.06ha



Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.06ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.06ha



Recent site history - 1999 aerial photograph



Capture Date: 10/07/1999

Site Area: 0.06ha



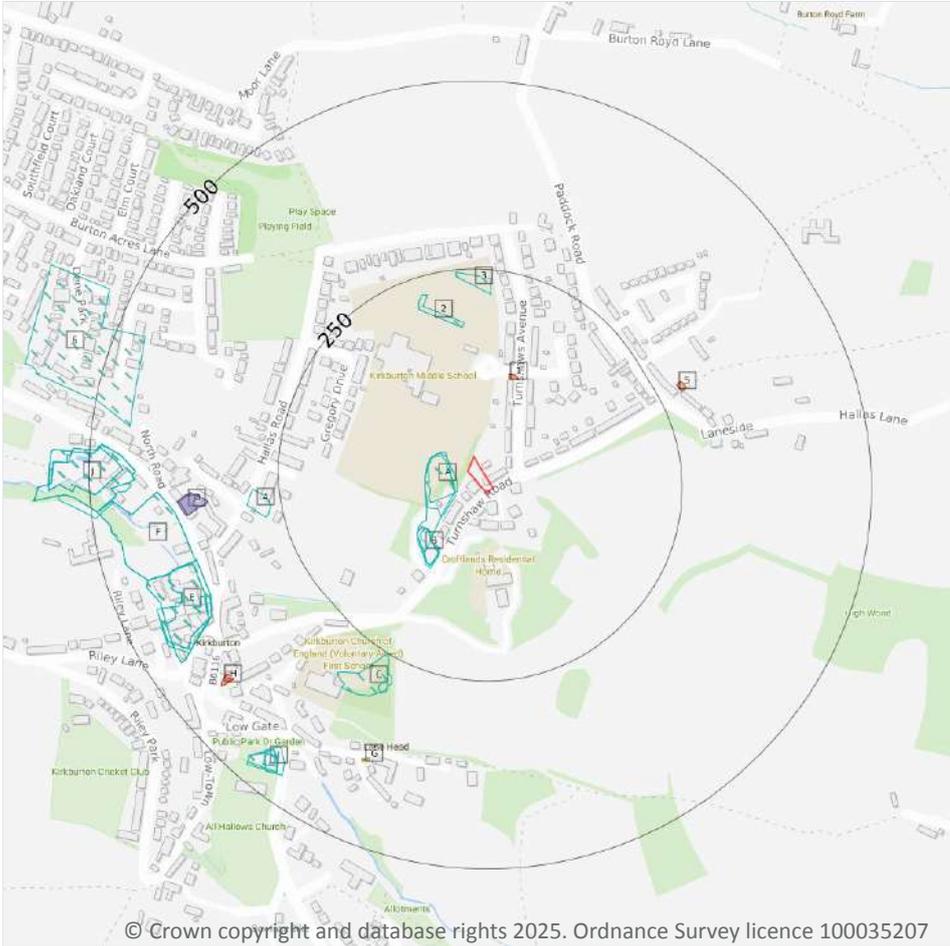
OS MasterMap site plan



Site Area: 0.06ha



1 Past land use



— Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m **29**

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
A	18m W	Unspecified Disused Quarry	1967 - 1979	1562812



ID	Location	Land use	Dates present	Group ID
A	22m W	Unspecified Disused Quarry	1955	1507158
A	23m W	Unspecified Disused Quarry	1938 - 1948	1518180
B	90m SW	Unspecified Quarry	1938	1578357
B	91m SW	Unspecified Heap	1948	1507820
B	92m SW	Unspecified Quarry	1904	1562893
2	173m N	Unspecified Ground Workings	1979 - 1993	1561580
3	217m N	Unspecified Pit	1979 - 1993	1498749
C	251m SW	Unspecified Quarry	1892 - 1904	1484493
4	264m W	Unspecified Old Quarry	1892	1437748
C	279m SW	Refuse Heap	1938	1434390
E	376m W	Unspecified Works	1955	1506869
E	376m W	Unspecified Works	1968 - 1990	1512180
F	377m W	Unspecified Commercial/Industrial	1977	1431674
F	377m W	Unspecified Mills	1968	1445980
E	382m W	Unspecified Works	1938	1501265
E	382m W	Unspecified Works	1904	1534871
E	386m SW	Unspecified Works	1948	1485613
I	434m SW	Police Station	1990	1510604
J	438m W	Unspecified Commercial/Industrial	1977	1431673
J	438m W	Unspecified Mill	1968	1448435
J	438m W	Unspecified Disused Mill	1948 - 1955	1562372
I	442m SW	Police Station	1938	1521939
I	444m SW	Police Station	1948	1500904
I	447m SW	Police Station	1955	1488104
I	447m SW	Police Station	1968 - 1977	1492763
6	450m W	Isolation Hospital	1938 - 1948	1553183
J	455m W	Unspecified Works	1904	1460207
J	455m W	Unspecified Disused Mill	1938	1555844

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

2

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
G	385m S	Unspecified Tank	1961	242572
G	389m S	Unspecified Tank	1913	239742

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

4

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
1	114m N	Electricity Substation	1978 - 1990	153642
5	279m NE	Electricity Substation	1978 - 1990	158483
H	414m SW	Electricity Substation	1990 - 1995	149076
H	416m SW	Electricity Substation	1978	158288

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 ungrouped 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

2

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

Features are displayed on the Past land use map on [page 14](#) >

ID	Location	Land use	Dates present	Group ID
D	346m W	Garage	1990	48807
D	355m W	Garage	1961 - 1978	50233

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

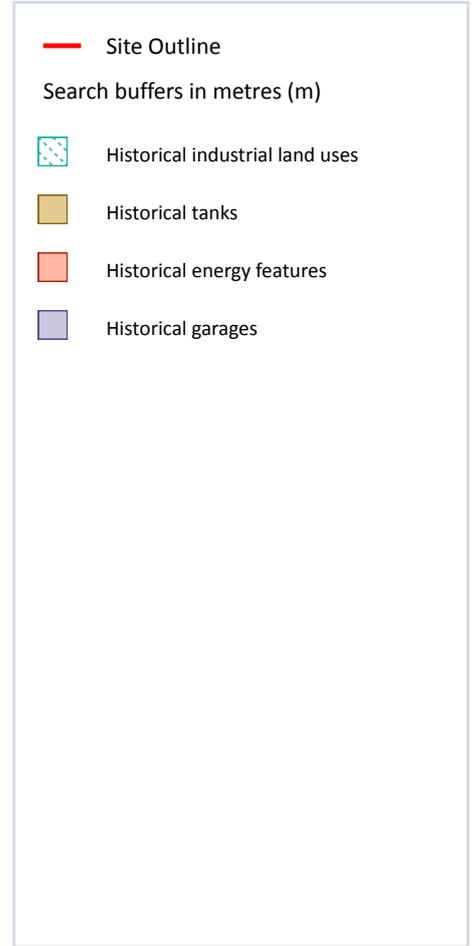
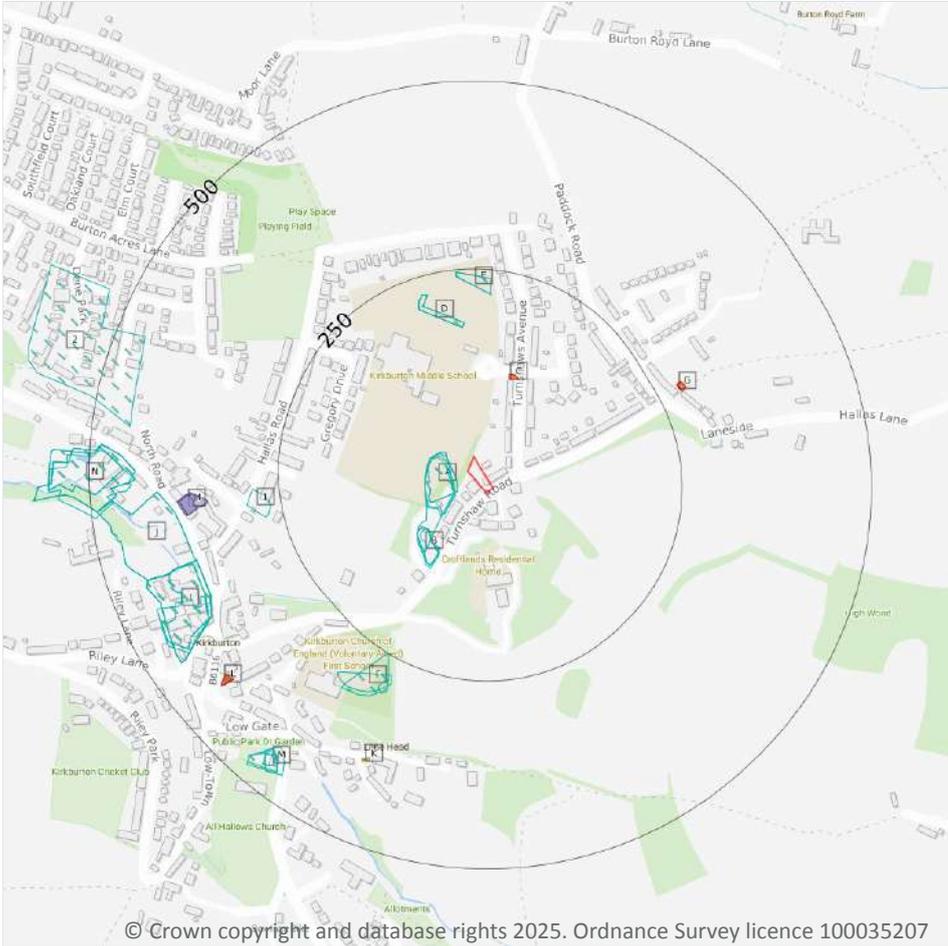
0

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

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



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

39

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

Features are displayed on the Past land use - un-grouped map on [page 18](#) >

ID	Location	Land Use	Date	Group ID
A	18m W	Unspecified Disused Quarry	1979	1562812
A	18m W	Unspecified Disused Quarry	1967	1562812
A	22m W	Unspecified Disused Quarry	1955	1507158

ID	Location	Land Use	Date	Group ID
A	23m W	Unspecified Disused Quarry	1938	1518180
A	25m W	Unspecified Disused Quarry	1948	1518180
B	90m SW	Unspecified Quarry	1938	1578357
B	91m SW	Unspecified Heap	1948	1507820
B	91m SW	Unspecified Heap	1948	1507820
B	92m SW	Unspecified Quarry	1904	1562893
D	173m N	Unspecified Ground Workings	1993	1561580
D	173m N	Unspecified Ground Workings	1979	1561580
E	217m N	Unspecified Pit	1993	1498749
E	217m N	Unspecified Pit	1979	1498749
F	251m SW	Unspecified Quarry	1904	1484493
1	264m W	Unspecified Old Quarry	1892	1437748
F	274m SW	Unspecified Quarry	1892	1484493
F	279m SW	Refuse Heap	1938	1434390
I	376m W	Unspecified Works	1968	1512180
I	376m W	Unspecified Works	1977	1512180
I	376m W	Unspecified Works	1990	1512180
I	376m W	Unspecified Works	1955	1506869
J	377m W	Unspecified Mills	1968	1445980
J	377m W	Unspecified Commercial/Industrial	1977	1431674
I	382m W	Unspecified Works	1938	1501265
I	382m W	Unspecified Works	1904	1534871
I	386m SW	Unspecified Works	1948	1485613
M	434m SW	Police Station	1990	1510604
N	438m W	Unspecified Mill	1968	1448435
N	438m W	Unspecified Commercial/Industrial	1977	1431673
N	438m W	Unspecified Disused Mill	1955	1562372
M	442m SW	Police Station	1938	1521939



ID	Location	Land Use	Date	Group ID
N	444m W	Unspecified Disused Mill	1948	1562372
M	444m SW	Police Station	1948	1500904
M	447m SW	Police Station	1968	1492763
M	447m SW	Police Station	1977	1492763
M	447m SW	Police Station	1955	1488104
2	450m W	Isolation Hospital	1938	1553183
N	455m W	Unspecified Disused Mill	1938	1555844
N	455m W	Unspecified Works	1904	1460207

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

2

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 18 >](#)

ID	Location	Land Use	Date	Group ID
K	385m S	Unspecified Tank	1961	242572
K	389m S	Unspecified Tank	1913	239742

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

7

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 18 >](#)

ID	Location	Land Use	Date	Group ID
C	114m N	Electricity Substation	1990	153642



ID	Location	Land Use	Date	Group ID
C	114m N	Electricity Substation	1978	153642
G	279m NE	Electricity Substation	1990	158483
G	280m NE	Electricity Substation	1978	158483
L	414m SW	Electricity Substation	1995	149076
L	416m SW	Electricity Substation	1990	149076
L	416m SW	Electricity Substation	1978	158288

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0
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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	3
----------------------------	----------

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

Features are displayed on the Past land use - un-grouped map on [page 18 >](#)

ID	Location	Land Use	Date	Group ID
H	346m W	Garage	1990	48807
H	355m W	Garage	1978	50233
H	360m W	Garage	1961	50233

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill

3.1 Active or recent landfill

Records within 500m 0

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

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

3.2 Historical landfill (BGS records)

Records within 500m 0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m 0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m 0

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

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

3.5 Historical waste sites

Records within 500m 0

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

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



3.6 Licensed waste sites

Records within 500m

0

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

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

3.7 Waste exemptions

Records within 500m

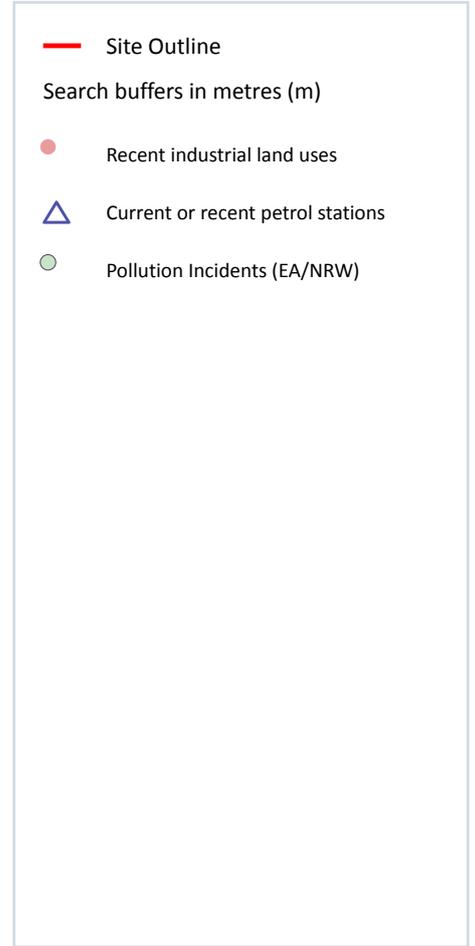
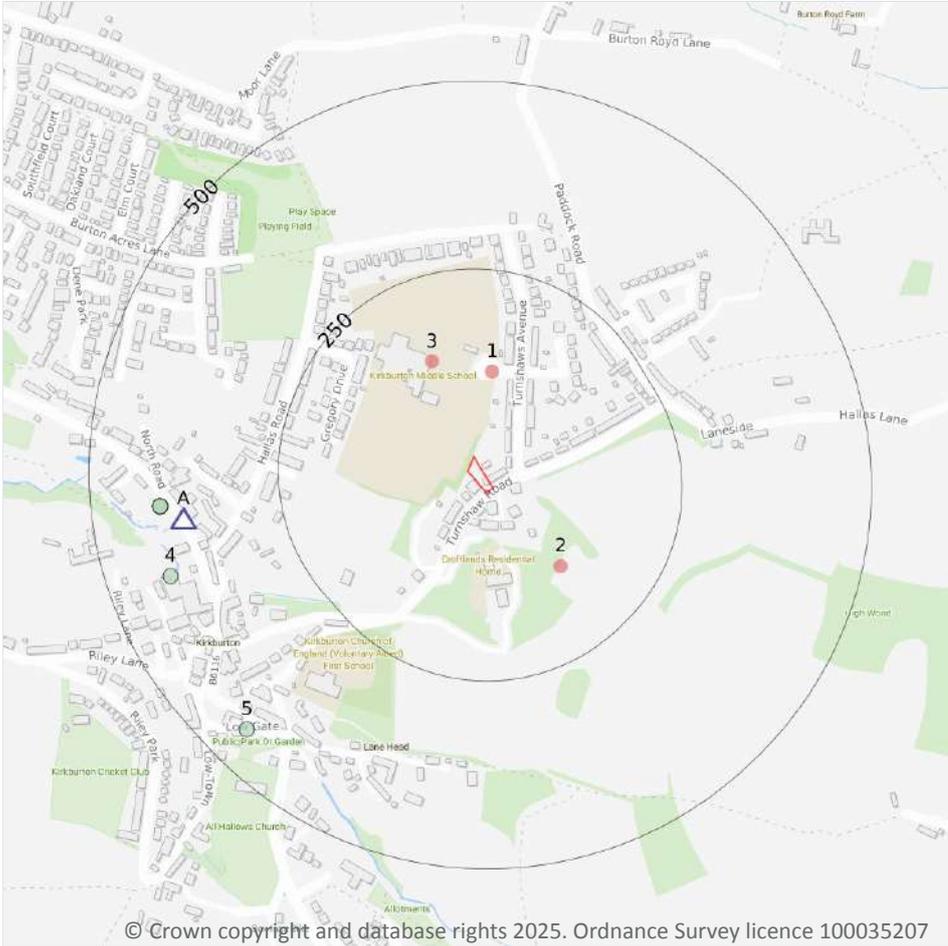
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

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



4 Current industrial land use



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 24](#) >

ID	Location	Company	Address	Activity	Category
1	116m N	Electricity Sub Station	West Yorkshire, HD8	Electrical Features	Infrastructure and Facilities
2	137m SE	Mast	West Yorkshire, HD8	Telecommunications Features	Infrastructure and Facilities
3	138m N	Chimney	West Yorkshire, HD8	Chimneys	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 24 >](#)

ID	Location	Company	Address	LPG	Status
A	381m W	OBSOLETE	North Road, Kirkburton, Huddersfield, West Yorkshire, HD8 0QE	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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



This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

0

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

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m 0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m 0

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m 0

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

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

4.15 Pollutant release to public sewer

Records within 500m 0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m 0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

5

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 24 >](#)

ID	Location	Details	
A	409m W	Incident Date: 24/02/2003 Incident Identification: 139026 Pollutant: Inert Materials and Wastes:Contaminated Water Pollutant Description: Other Inert Material or Waste:Vehicle and Plant Washings	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	409m W	Incident Date: 24/02/2003 Incident Identification: 139026 Pollutant: Contaminated Water Pollutant Description: Vehicle and Plant Washings	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	409m W	Incident Date: 24/02/2003 Incident Identification: 139026 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
4	416m W	Incident Date: 31/08/2010 Incident Identification: 817887 Pollutant: Sewage Materials Pollutant Description: Other Sewage Material	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
5	446m SW	Incident Date: 19/12/2005 Incident Identification: 366755 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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



4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

0

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

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



5 Hydrogeology - Superficial aquifer

5.1 Superficial aquifer

Records within 500m

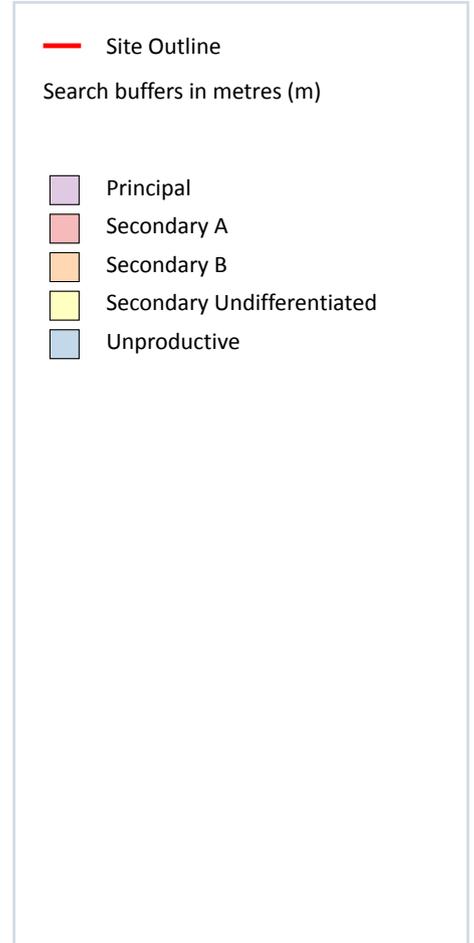
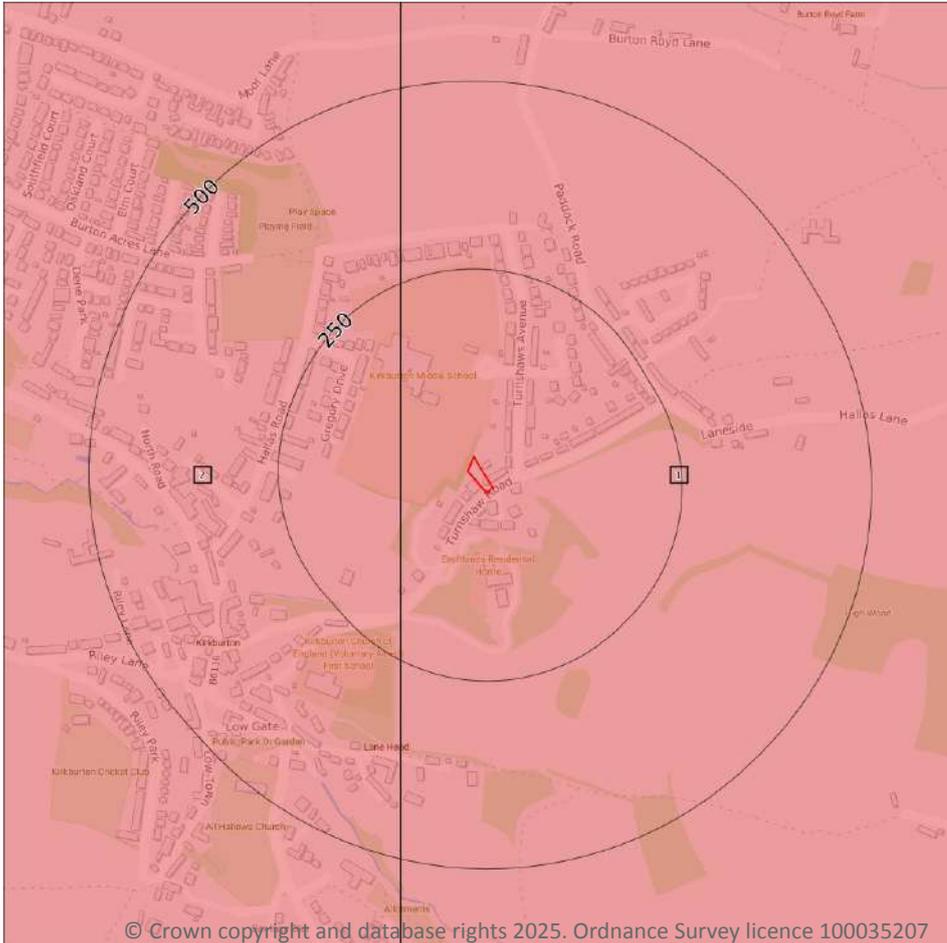
0

Aquifer status of groundwater held within superficial geology.

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

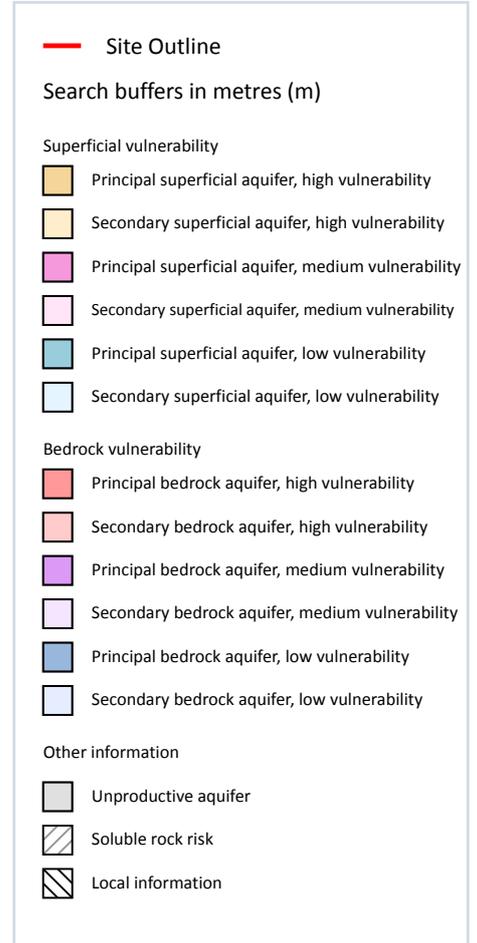
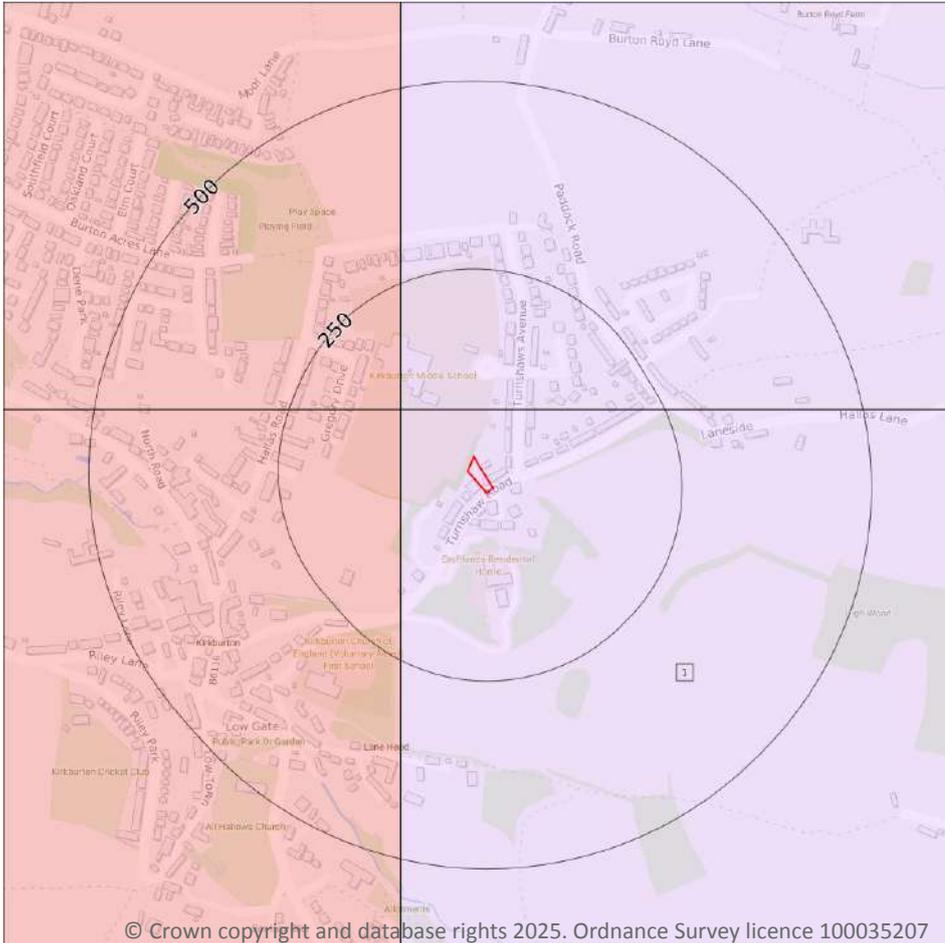
Features are displayed on the Bedrock aquifer map on [page 31](#) >

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	88m W	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



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 33](#) >

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

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
------------------------	----------

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

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

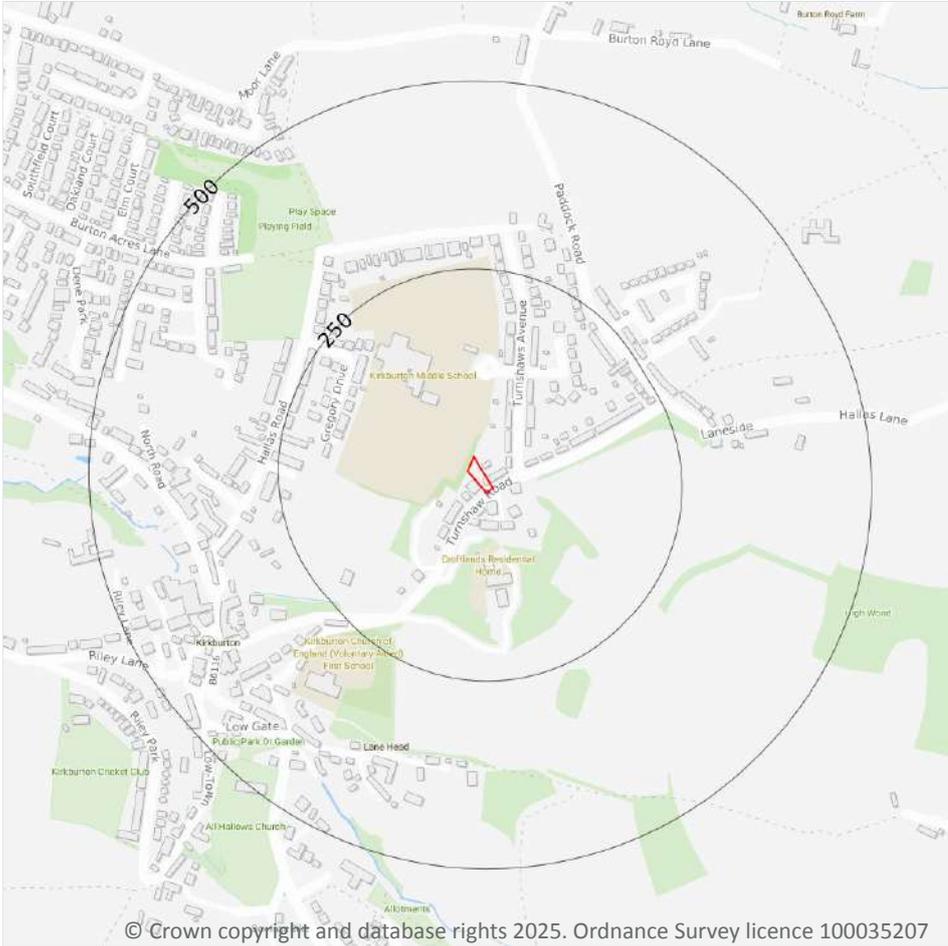
5.5 Groundwater vulnerability- local information

Records on site	0
------------------------	----------

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

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

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

34

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 35 >](#)

ID	Location	Details	
-	675m NW	Status: Historical Licence No: 2/27/11/181 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: THOMAS BIRKHEAD & SONS LIMITED Easting: 419470 Northing: 413190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/12/1997 Expiry Date: - Issue No: 100 Version Start Date: 17/12/1997 Version End Date: -
-	675m NW	Status: Historical Licence No: 2/27/11/181 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HIGH BURTON Data Type: Point Name: THOMAS BIRKHEAD & SONS LIMITED Easting: 419470 Northing: 413190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/12/1997 Expiry Date: - Issue No: 100 Version Start Date: 17/12/1997 Version End Date: -
-	1080m W	Status: Historical Licence No: 2/27/11/167 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEAURES-BROOKFIELD MILL-HIGHBURTON Data Type: Point Name: WHITLEY WILLOWS LTD Easting: 419010 Northing: 412970	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 103 Version Start Date: 08/09/2005 Version End Date: -
-	1080m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEAURES-BROOKFIELD MILL-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 419010 Northing: 412970	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 104 Version Start Date: 26/07/2006 Version End Date: -



ID	Location	Details	
-	1080m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE A-LOWER COAL MEAURES-BROOKFIELD MILL-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 419010 Northing: 412970	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 106 Version Start Date: 17/08/2016 Version End Date: -
-	1111m W	Status: Active Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE B3-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418989 Northing: 413081	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 1440 Original Application No: NPS/WR/032946 Original Start Date: 08/01/1982 Expiry Date: - Issue No: 109 Version Start Date: 06/10/2021 Version End Date: -
-	1148m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER COAL MEASURES - BROOKFIELD MILLS Data Type: Point Name: PENMOOR UK LTD Easting: 418964 Northing: 413151	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 107 Version Start Date: 17/08/2016 Version End Date: -
-	1148m W	Status: Active Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE B2-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418949 Northing: 413061	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 1440 Original Application No: NPS/WR/032946 Original Start Date: 08/01/1982 Expiry Date: - Issue No: 109 Version Start Date: 06/10/2021 Version End Date: -



ID	Location	Details	
-	1149m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418940 Northing: 412960	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 104 Version Start Date: 26/07/2006 Version End Date: -
-	1149m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE B-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418940 Northing: 412960	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 107 Version Start Date: 17/08/2016 Version End Date: -
-	1151m W	Status: Active Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE B1-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418941 Northing: 413009	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 1440 Original Application No: NPS/WR/032946 Original Start Date: 08/01/1982 Expiry Date: - Issue No: 109 Version Start Date: 06/10/2021 Version End Date: -
-	1179m W	Status: Historical Licence No: 2/27/11/167 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEASURES-KIRKBURTON Data Type: Point Name: WHITLEY WILLOWS LTD Easting: 418910 Northing: 412900	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 103 Version Start Date: 08/09/2005 Version End Date: -



ID	Location	Details	
-	1189m W	Status: Historical Licence No: 2/27/11/167 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER COAL MEASURES - KIRKBURTON Data Type: Point Name: WHITLEY WILLOWS LTD Easting: 418900 Northing: 412900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 102 Version Start Date: 01/02/2002 Version End Date: -
-	1596m SE	Status: Active Licence No: 2/27/11/178 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - SHELLEY Data Type: Point Name: DEARNLEY Easting: 420900 Northing: 411500	Annual Volume (m ³): 9855 Max Daily Volume (m ³): 27 Original Application No: 6692 Original Start Date: 07/11/1995 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2024 Version End Date: -
-	1596m SE	Status: Historical Licence No: 2/27/11/178 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: DEARNLEY Easting: 420900 Northing: 411500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/11/1995 Expiry Date: - Issue No: 100 Version Start Date: 07/11/1995 Version End Date: -
-	1613m W	Status: Historical Licence No: 2/27/11/177 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - KIRKBURTON Data Type: Point Name: UNIVERSITY OF HUDDERSFIELD Easting: 418500 Northing: 413200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/10/1995 Expiry Date: - Issue No: 102 Version Start Date: 31/07/1999 Version End Date: -
-	1615m W	Status: Active Licence No: 2/27/11/177 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-KIRKBURTON Data Type: Point Name: UBRIQUE INVESTMENTS LTD Easting: 418510 Northing: 413260	Annual Volume (m ³): 71000 Max Daily Volume (m ³): 210 Original Application No: 6690 Original Start Date: 10/10/1995 Expiry Date: - Issue No: 105 Version Start Date: 15/06/2006 Version End Date: -



ID	Location	Details	
-	1615m W	Status: Historical Licence No: 2/27/11/177 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-KIRKBURTON Data Type: Point Name: UNIVERSITY OF HUDDERSFIELD Easting: 418510 Northing: 413260	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/10/1995 Expiry Date: - Issue No: 103 Version Start Date: 08/11/2002 Version End Date: -
-	1736m SE	Status: Active Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE- COAL MEASURES - SHELLEY Data Type: Point Name: C & M HALL Easting: 421550 Northing: 411910	Annual Volume (m ³): 32225 Max Daily Volume (m ³): 89 Original Application No: NPS/WR/021610 Original Start Date: 11/10/2000 Expiry Date: - Issue No: 4 Version Start Date: 31/10/2016 Version End Date: -
-	1736m SE	Status: Historical Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: UNDERGROUND STRATA - COAL MEASURES Data Type: Point Name: T R & C HALL Easting: 421550 Northing: 411910	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 2 Version Start Date: 18/09/2002 Version End Date: -
-	1779m SE	Status: Historical Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE- COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421750 Northing: 412180	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -
-	1779m SE	Status: Historical Licence No: 2/27/08/126 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE- COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421750 Northing: 412180	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -



ID	Location	Details	
-	1836m SE	Status: Active Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - SHELLEY Data Type: Point Name: C & M HALL Easting: 421820 Northing: 412200	Annual Volume (m ³): 32225 Max Daily Volume (m ³): 89 Original Application No: NPS/WR/021610 Original Start Date: 11/10/2000 Expiry Date: - Issue No: 4 Version Start Date: 31/10/2016 Version End Date: -
-	1836m SE	Status: Historical Licence No: 2/27/08/126 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421820 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -
-	1836m SE	Status: Historical Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421820 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -
-	1854m NW	Status: Historical Licence No: 2/27/11/077 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418850 Northing: 414310	Annual Volume (m ³): 59099 Max Daily Volume (m ³): 286.4 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 20/04/2005 Version End Date: -
-	1854m NW	Status: Historical Licence No: 2/27/11/077 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418850 Northing: 414310	Annual Volume (m ³): 360000 Max Daily Volume (m ³): 1200 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 22/06/2006 Version End Date: -



ID	Location	Details	
-	1854m NW	Status: Historical Licence No: 2/27/11/077 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418850 Northing: 414310	Annual Volume (m ³): 360000 Max Daily Volume (m ³): 1200 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 22/06/2006 Version End Date: -
-	1856m NW	Status: Active Licence No: 2/27/11/077 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418848 Northing: 414310	Annual Volume (m ³): 85000 Max Daily Volume (m ³): 1200 Original Application No: NPS/WR/016706 Original Start Date: 17/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 13/10/2014 Version End Date: -
-	1856m NW	Status: Active Licence No: 2/27/11/077 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-FENAY BRIDGE Data Type: Point Name: RELIANCE PRECISION LTD Easting: 418848 Northing: 414310	Annual Volume (m ³): 85000 Max Daily Volume (m ³): 1200 Original Application No: NPS/WR/016706 Original Start Date: 17/03/1966 Expiry Date: - Issue No: 104 Version Start Date: 13/10/2014 Version End Date: -
-	1881m NW	Status: Historical Licence No: 2/27/11/077 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: SPRINGWOOD ENGINEERING CO LTD Easting: 418800 Northing: 414300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 23/12/1981 Version End Date: -
-	1881m NW	Status: Historical Licence No: 2/27/11/077 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - FENAY BRIDGE Data Type: Point Name: RELIANCE GEAR CO LTD Easting: 418800 Northing: 414300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 03/07/2001 Version End Date: -



ID	Location	Details	
-	1956m SE	Status: Historical Licence No: 2/27/11/187 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEASURES-PENNINE GARDEN CENTRE, HUDDS Data Type: Point Name: ARMITAGE & SONS T/A ARMITAGE GARDEN CENTRE Easting: 421100 Northing: 411200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/04/2001 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 11/04/2001 Version End Date: -
-	1956m SE	Status: Historical Licence No: 2/27/11/187 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEASURES-PENNINE GARDEN CENTRE Data Type: Point Name: ARMITAGE GARDEN CENTRE Easting: 421100 Northing: 411200	Annual Volume (m ³): 10000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 11/04/2001 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 11/04/2001 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

7

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 35 >](#)

ID	Location	Details	
-	1189m W	Status: Historical Licence No: 2/27/11/168 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: SHEPLEY DYKE Data Type: Point Name: PENMOOR UK LTD Easting: 418900 Northing: 412900	Annual Volume (m ³): 10500 Max Daily Volume (m ³): 136 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 103 Version Start Date: 26/07/2006 Version End Date: -



ID	Location	Details	
-	1189m W	Status: Historical Licence No: 2/27/11/168 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: SHEPLEY DYKE - HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418900 Northing: 412900	Annual Volume (m ³): 10500 Max Daily Volume (m ³): 136 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 103 Version Start Date: 16/03/2015 Version End Date: -
-	1549m NW	Status: Historical Licence No: 2/27/11/078 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: BELDON BROOK Data Type: Point Name: SPRINGWOOD ENGINEERING CO LTD Easting: 419200 Northing: 414200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 30/06/1980 Version End Date: -
-	1549m NW	Status: Historical Licence No: 2/27/11/078 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: BELDON BROOK - FENAY BRIDGE Data Type: Point Name: RELIANCE GEAR COMPANY LIMITED Easting: 419200 Northing: 414200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 18/06/2002 Version End Date: -
-	1549m NW	Status: Historical Licence No: 2/27/11/078 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: BELDON BROOK - FENAY BRIDGE Data Type: Point Name: RELIANCE GEAR CO LTD Easting: 419200 Northing: 414200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 102 Version Start Date: 18/06/2002 Version End Date: -
-	1563m NW	Status: Historical Licence No: 2/27/11/078 Details: Lake & Pond Throughflow Direct Source: SURFACE WATER Point: BELDON BROOK-FENAY BRIDGE-HUDDERSFIELD Data Type: Point Name: MALLINSON Easting: 419190 Northing: 414210	Annual Volume (m ³): 7728 Max Daily Volume (m ³): 254.58 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 20/06/2004 Version End Date: -



ID	Location	Details	
-	1664m NW	Status: Historical Licence No: 2/27/11/174 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: WOODSOME BECK Data Type: Point Name: KIRKLEES METROPOLITAN COUNCIL & KIRKLEES COUNTRYSIDE UNIT Easting: 418680 Northing: 413810	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/07/1994 Expiry Date: - Issue No: 100 Version Start Date: 14/07/1994 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	11
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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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 35 >](#)

ID	Location	Details	
-	1080m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEAURES-BROOKFIELD MILL-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 419010 Northing: 412970	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 104 Version Start Date: 26/07/2006 Version End Date: -
-	1080m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE A-LOWER COAL MEAURES-BROOKFIELD MILL-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 419010 Northing: 412970	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 106 Version Start Date: 17/08/2016 Version End Date: -



ID	Location	Details	
-	1111m W	Status: Active Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE B3-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418989 Northing: 413081	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 1440 Original Application No: NPS/WR/032946 Original Start Date: 08/01/1982 Expiry Date: - Issue No: 109 Version Start Date: 06/10/2021 Version End Date: -
-	1148m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE - LOWER COAL MEASURES - BROOKFIELD MILLS Data Type: Point Name: PENMOOR UK LTD Easting: 418964 Northing: 413151	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 107 Version Start Date: 17/08/2016 Version End Date: -
-	1148m W	Status: Active Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE B2-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418949 Northing: 413061	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 1440 Original Application No: NPS/WR/032946 Original Start Date: 08/01/1982 Expiry Date: - Issue No: 109 Version Start Date: 06/10/2021 Version End Date: -
-	1149m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418940 Northing: 412960	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 104 Version Start Date: 26/07/2006 Version End Date: -



ID	Location	Details	
-	1149m W	Status: Historical Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE B-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418940 Northing: 412960	Annual Volume (m ³): 225000 Max Daily Volume (m ³): 1000 Original Application No: - Original Start Date: 08/01/1982 Expiry Date: - Issue No: 107 Version Start Date: 17/08/2016 Version End Date: -
-	1151m W	Status: Active Licence No: 2/27/11/167 Details: Water Bottling Direct Source: GROUNDWATERS Point: BOREHOLE B1-LOWER COAL MEASURES-HIGHBURTON Data Type: Point Name: PENMOOR UK LTD Easting: 418941 Northing: 413009	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 1440 Original Application No: NPS/WR/032946 Original Start Date: 08/01/1982 Expiry Date: - Issue No: 109 Version Start Date: 06/10/2021 Version End Date: -
-	1615m W	Status: Active Licence No: 2/27/11/177 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-KIRKBURTON Data Type: Point Name: UBRIQUE INVESTMENTS LTD Easting: 418510 Northing: 413260	Annual Volume (m ³): 71000 Max Daily Volume (m ³): 210 Original Application No: 6690 Original Start Date: 10/10/1995 Expiry Date: - Issue No: 105 Version Start Date: 15/06/2006 Version End Date: -
-	1779m SE	Status: Historical Licence No: 2/27/08/126 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE- COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421750 Northing: 412180	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -



ID	Location	Details	
-	1836m SE	Status: Historical Licence No: 2/27/08/126 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421820 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0
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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.

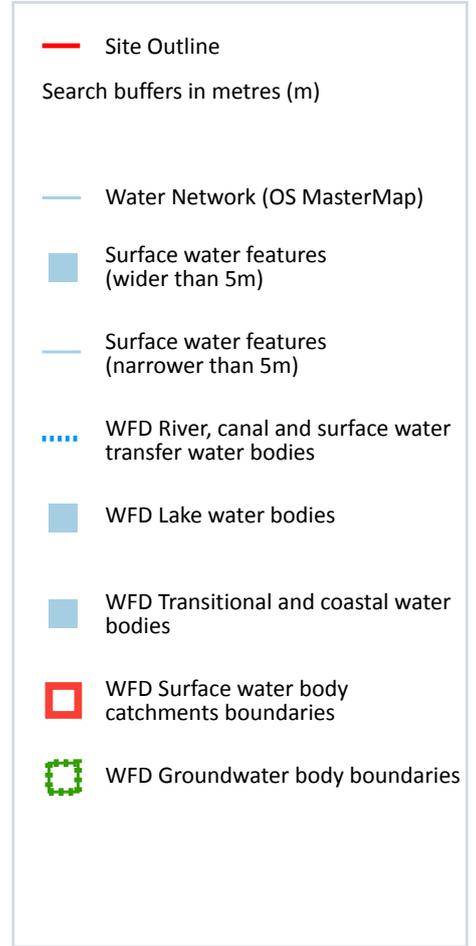
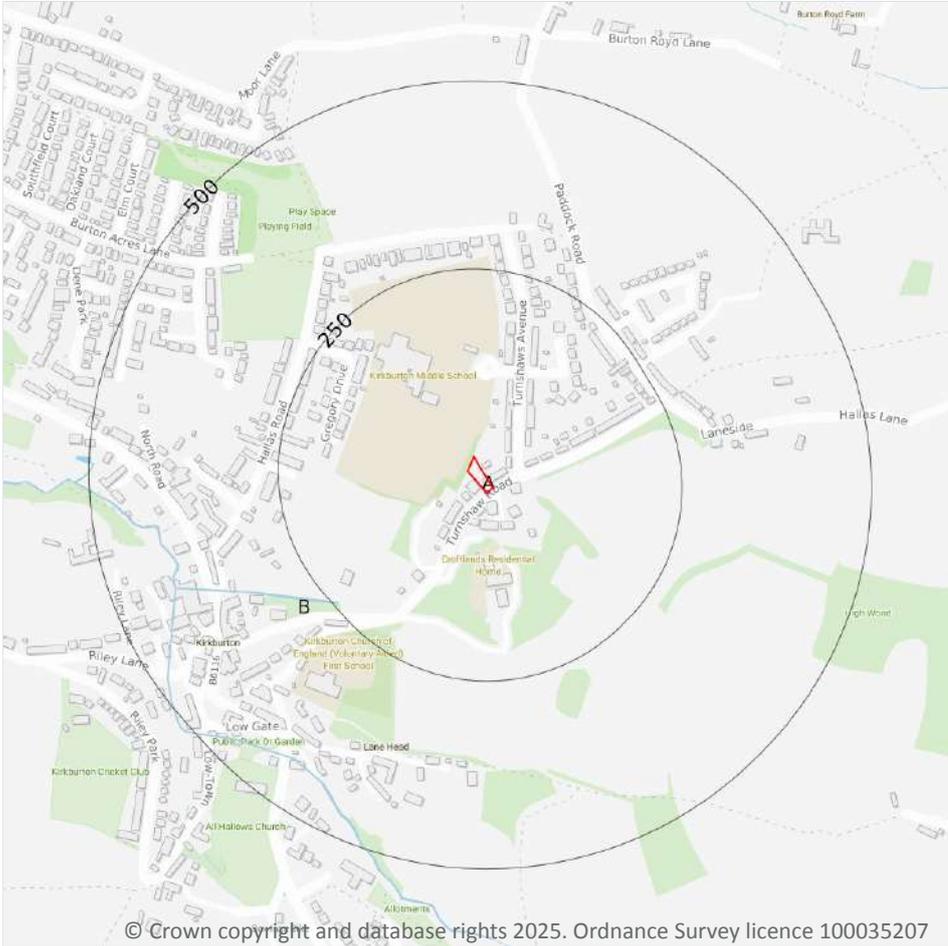
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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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



6.1 Water Network (OS MasterMap)

Records within 250m **1**

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 49 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
B	244m SW	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

1

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 49 >](#)

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 49 >](#)

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

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on [page 49 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1125m W	River	Fenay beck from Source to River Colne	GB104027063340 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1
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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 49 >](#)

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

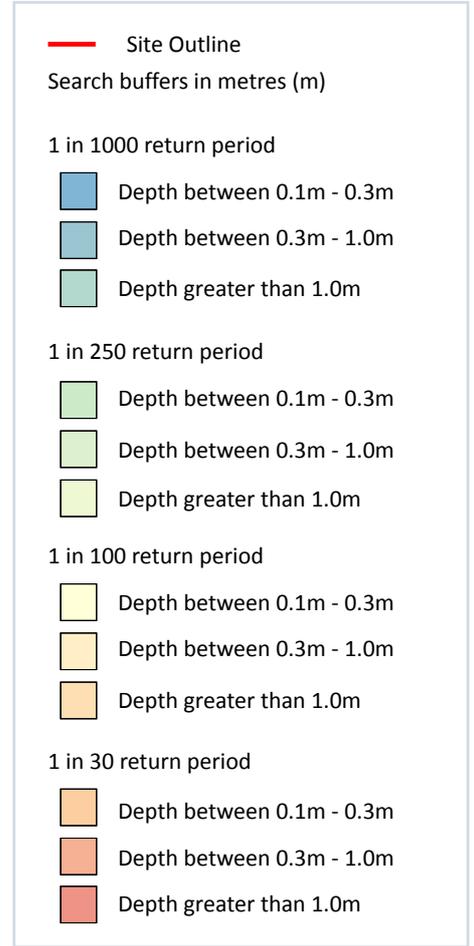
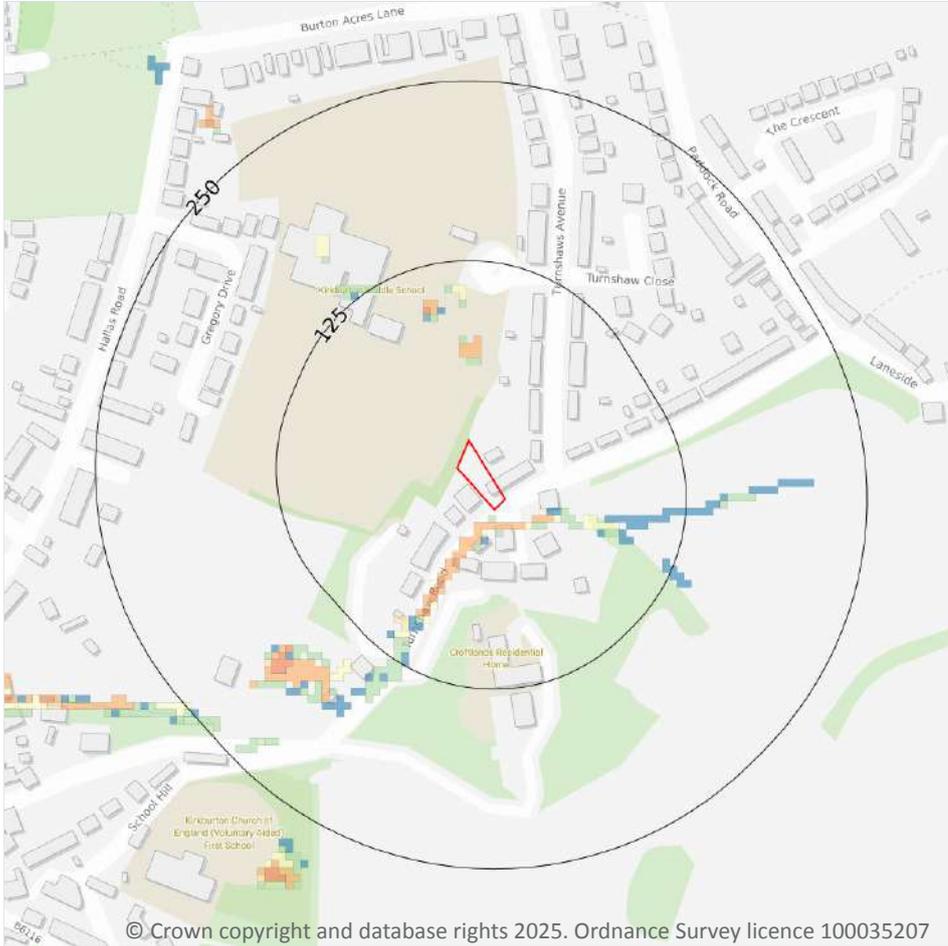
0

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

1 in 30 year, 0.3m - 1.0m

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.

Features are displayed on the Surface water flooding map on [page 55 >](#)

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.

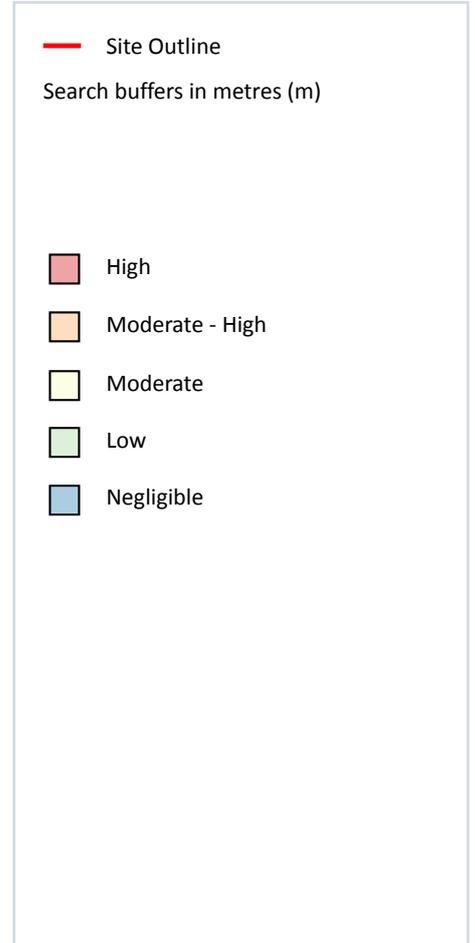
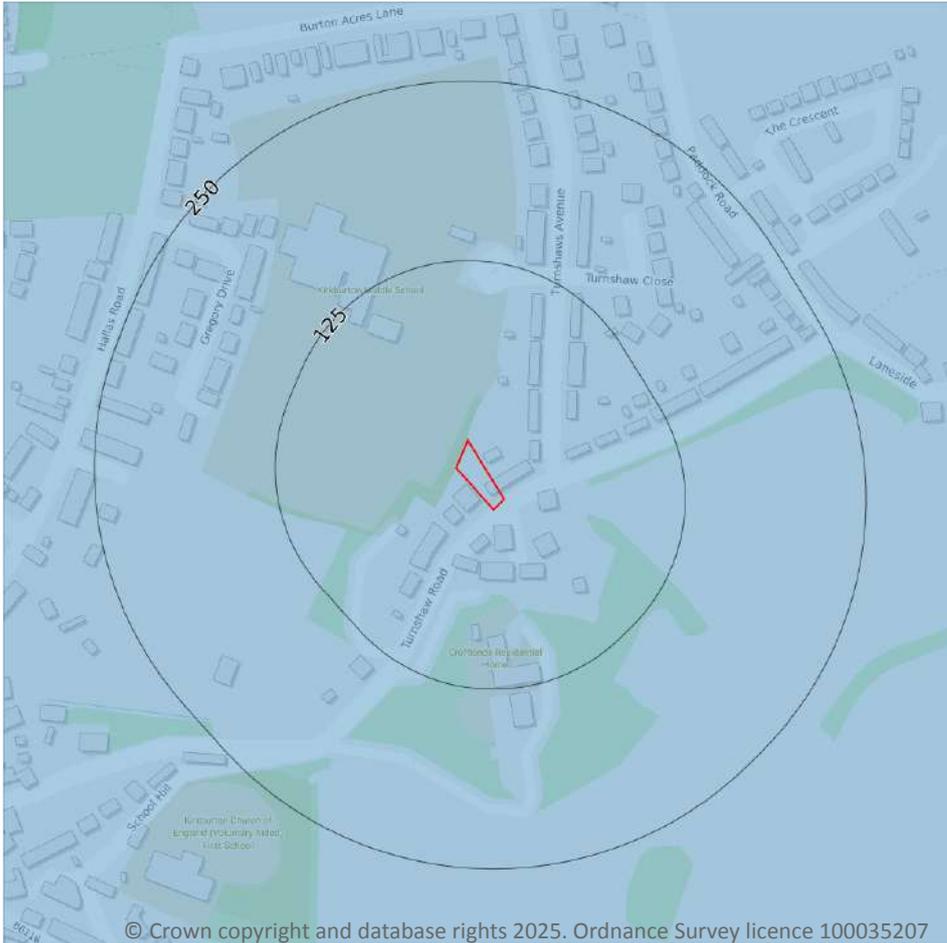
The table below shows the maximum flood depths for a range of return periods for the site.

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



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

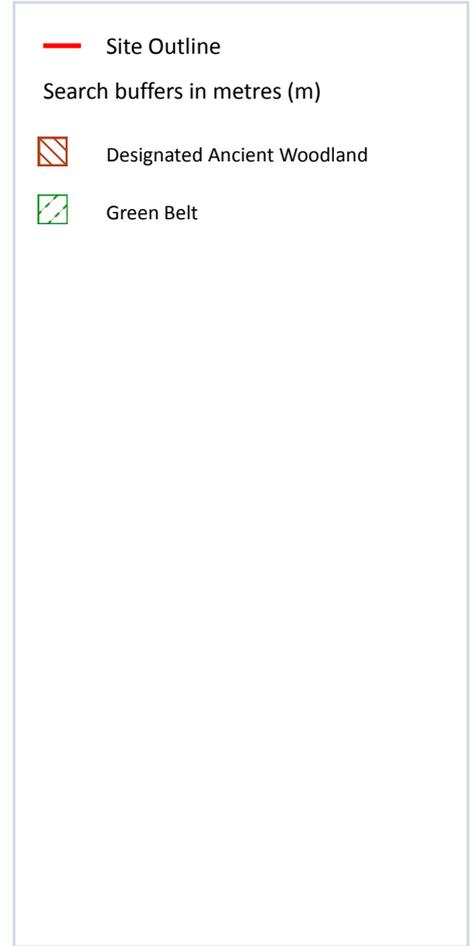
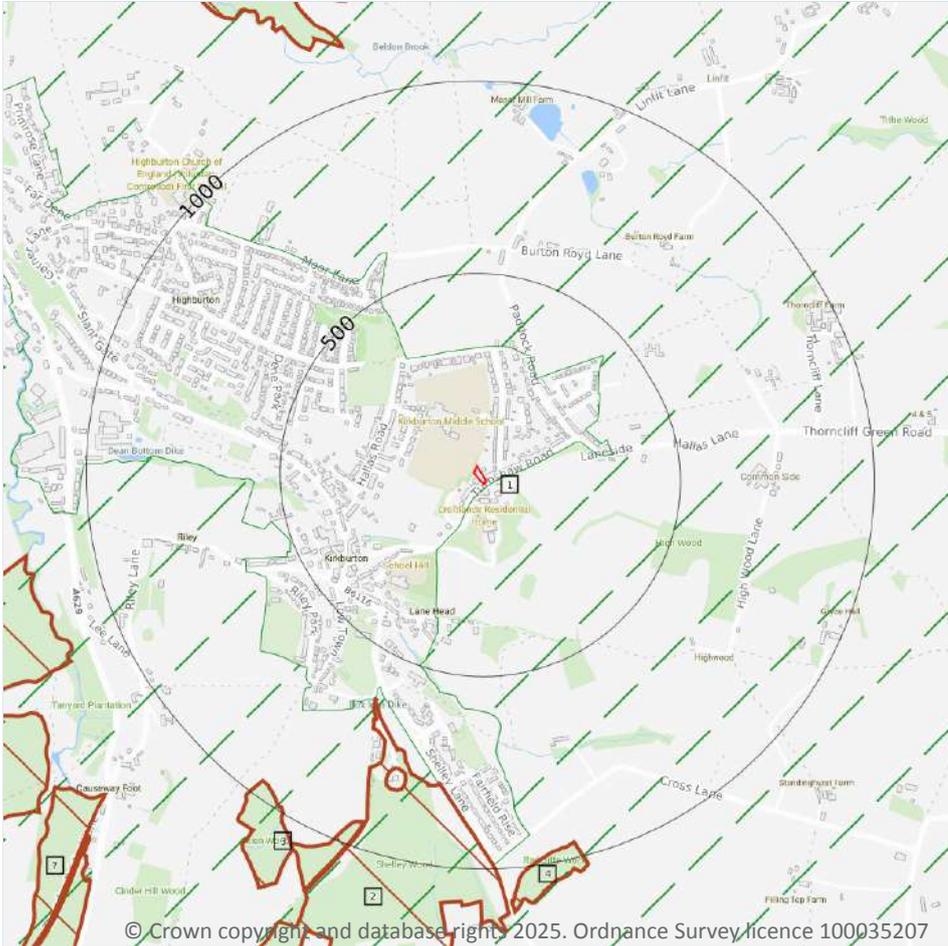
Negligible

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 57 >](#)

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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

9

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 58 >](#)

ID	Location	Name	Woodland Type
2	625m SW	Shelley Wood	Ancient & Semi-Natural Woodland
3	930m S	Shelley Wood	Ancient & Semi-Natural Woodland
4	958m S	Shelley Wood	Ancient Replanted Woodland
5	1132m SW	Hartley Bank Wood	Ancient Replanted Woodland
6	1143m N	Lepton Great Wood	Ancient & Semi-Natural Woodland
7	1266m SW	Hartley Bank Wood	Ancient Replanted Woodland
8	1370m SW	Hartley Bank Wood	Ancient Replanted Woodland
-	1748m W	North Spring Wood	Ancient Replanted Woodland
-	1819m W	Carr Wood	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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



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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 58 >](#)

ID	Location	Name	Local Authority name
1	9m SE	South and West Yorkshire Green Belt	Kirklees

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

1

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.

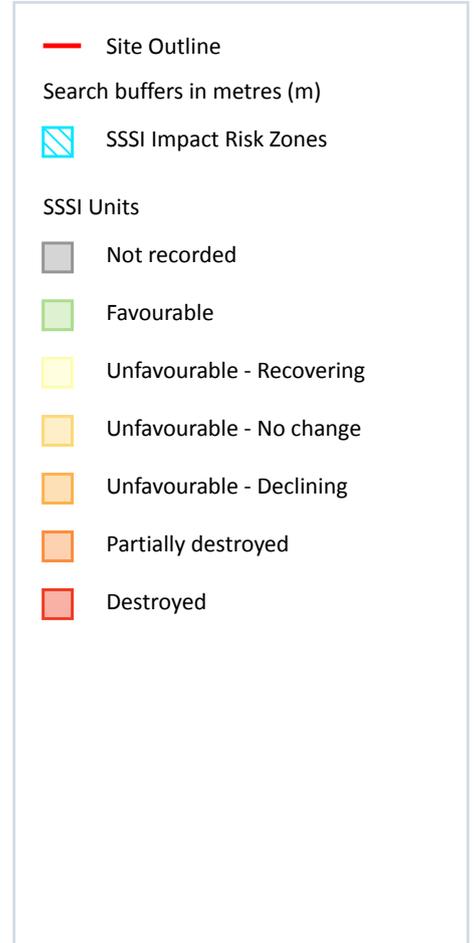
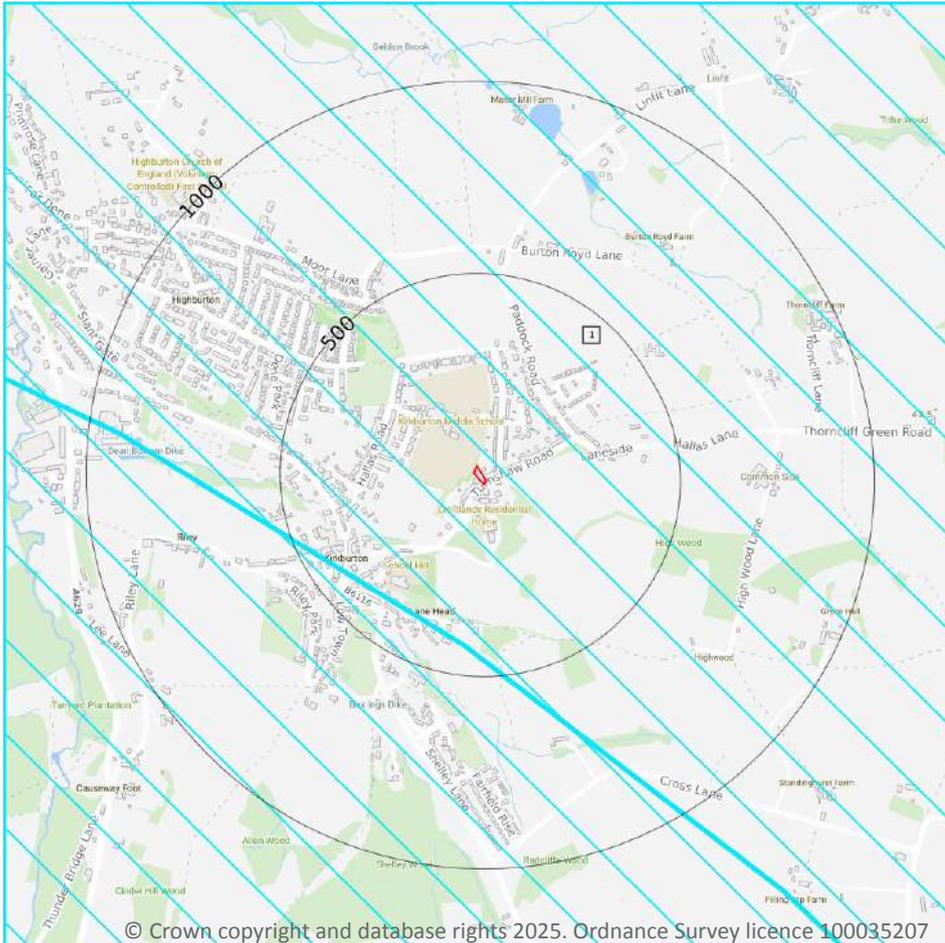
Location	Name	Type	NVZ ID	Status
1232m SE	River Dearne NVZ	Surface Water	278	Existing



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



SSSI Impact Zones and Units



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 64](#) >

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

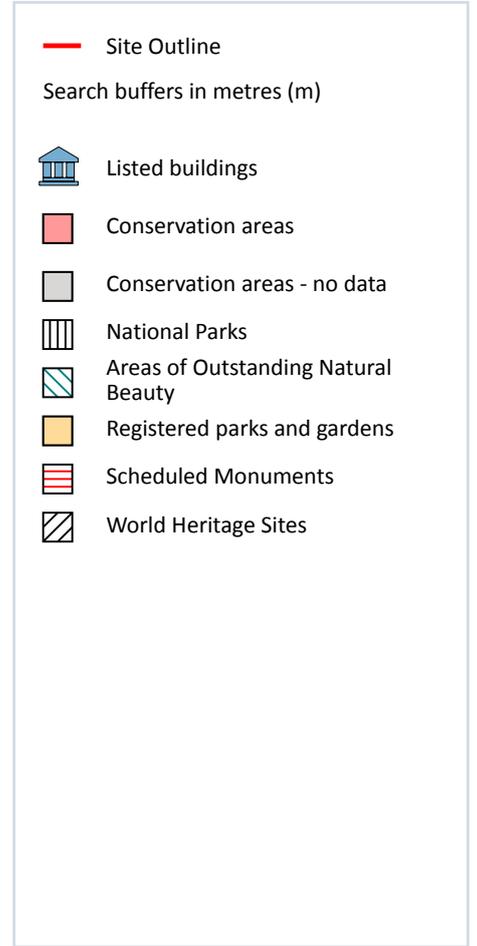
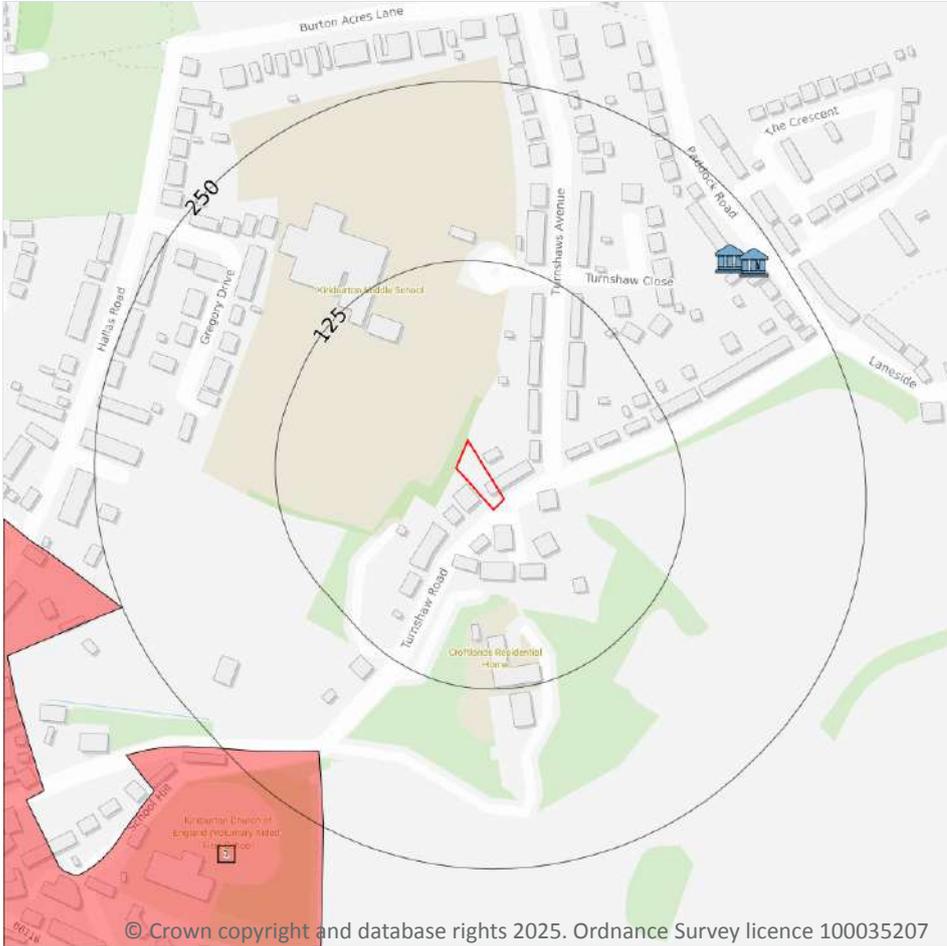
0

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

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



11 Visual and cultural designations



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 66 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
A	221m NE	80 And 82, Paddock Road	II	1135377	16/05/1984
A	233m NE	72 And 74, Paddock Road	II	1183907	16/05/1984

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 66](#) >

ID	Location	Name	District	Date of designation
1	207m SW	Kirkburton	Kirklees	01/08/1980

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

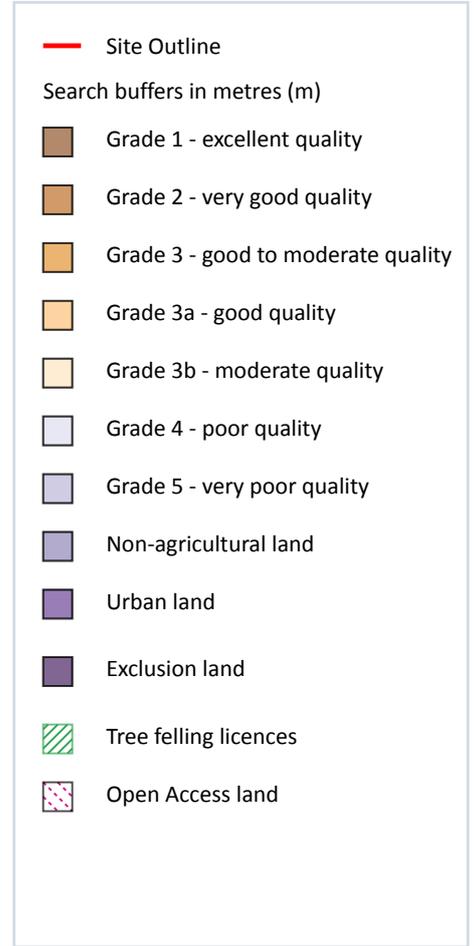
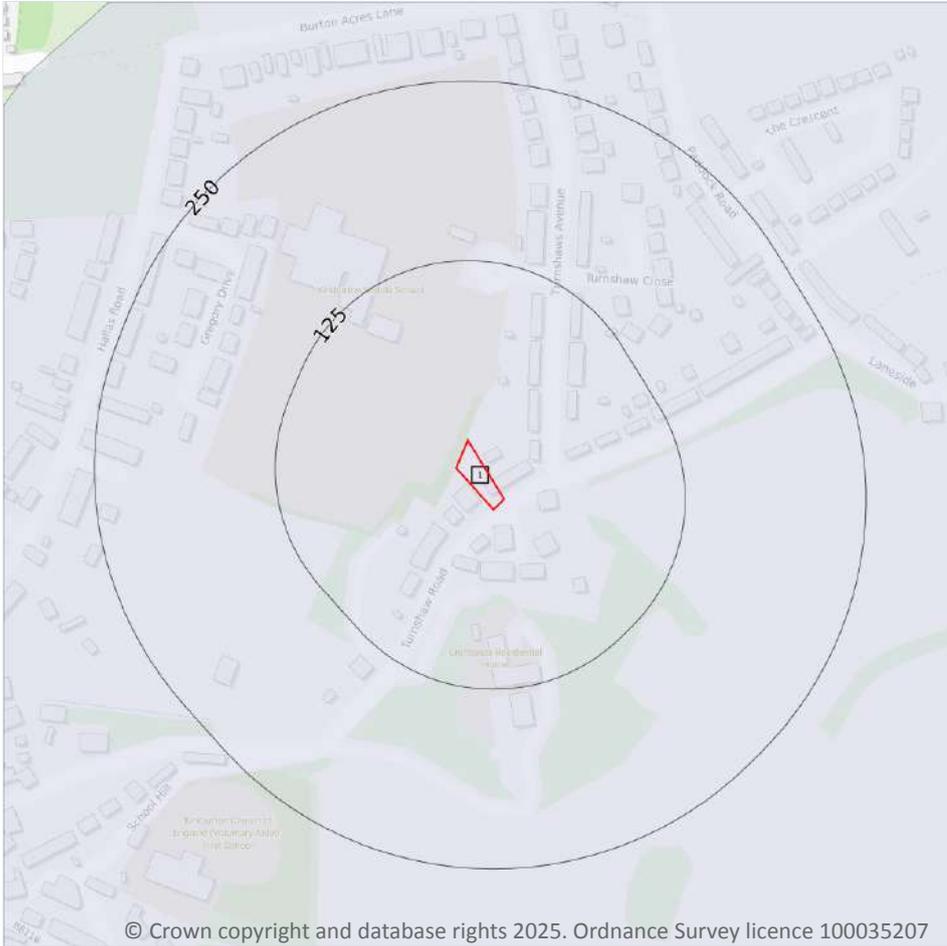
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on [page 69](#) >

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

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

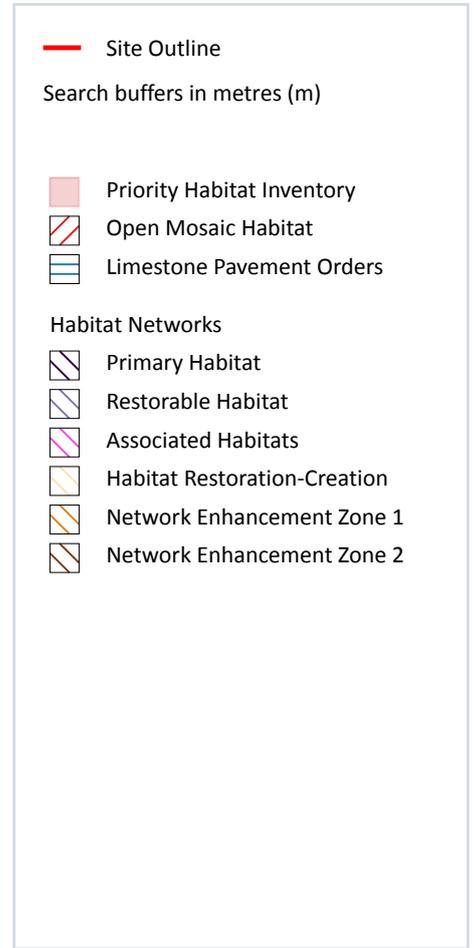
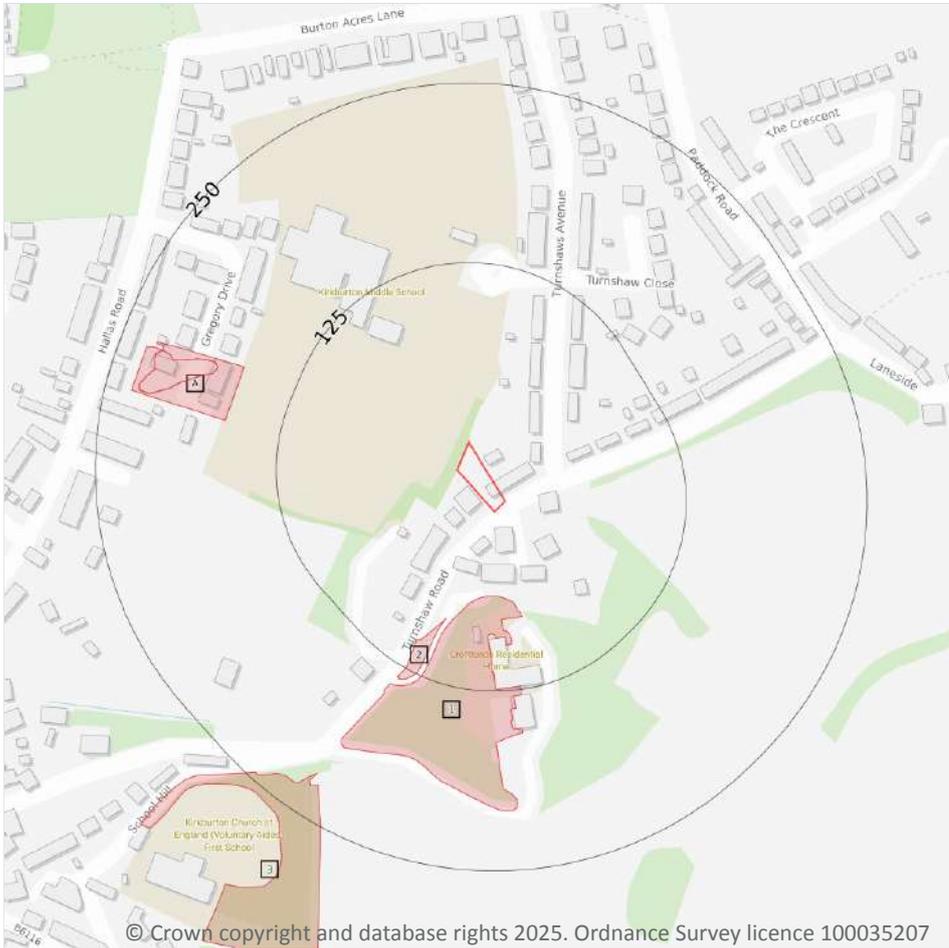
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Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce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

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

5

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

Features are displayed on the Habitat designations map on [page 71 >](#)

ID	Location	Main Habitat	Other habitats
1	59m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	82m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	163m W	No main habitat but additional habitats present	Additional: TORCH (INV 50%)
A	180m NW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

ID	Location	Main Habitat	Other habitats
3	220m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0
----------------------------	----------

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0
----------------------------	----------

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

This data is sourced from Natural England.

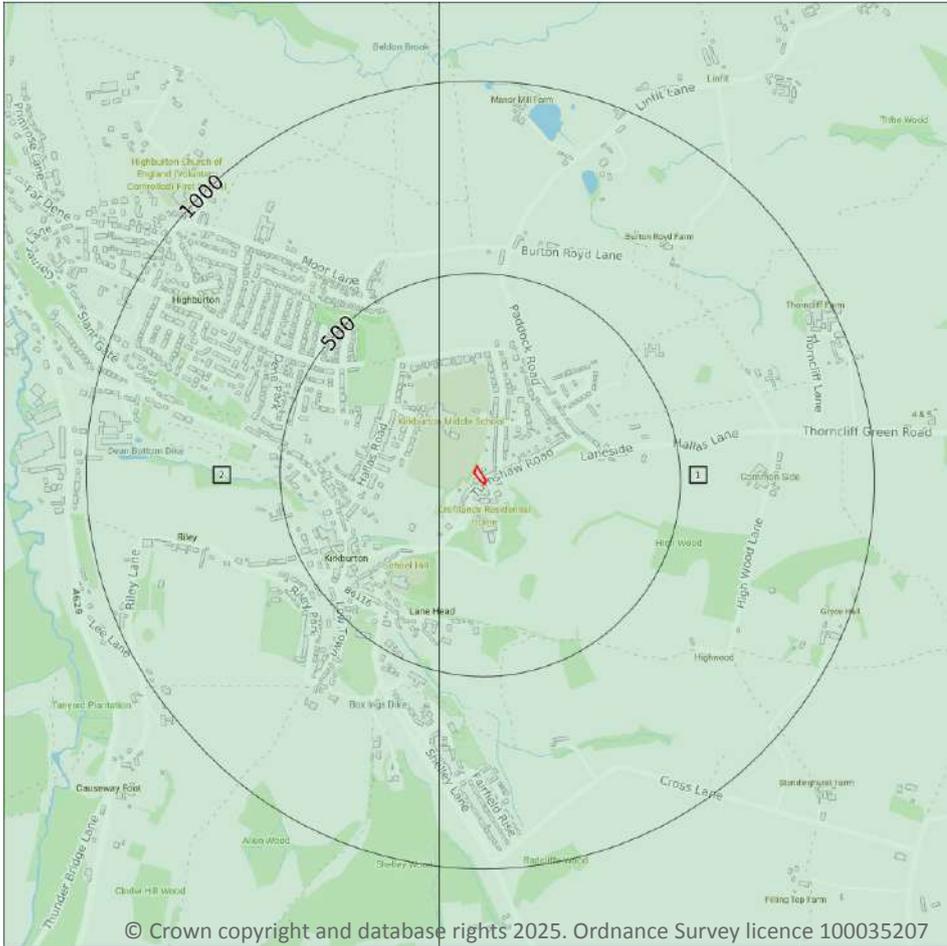
13.4 Limestone Pavement Orders

Records within 250m	0
----------------------------	----------

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



— Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

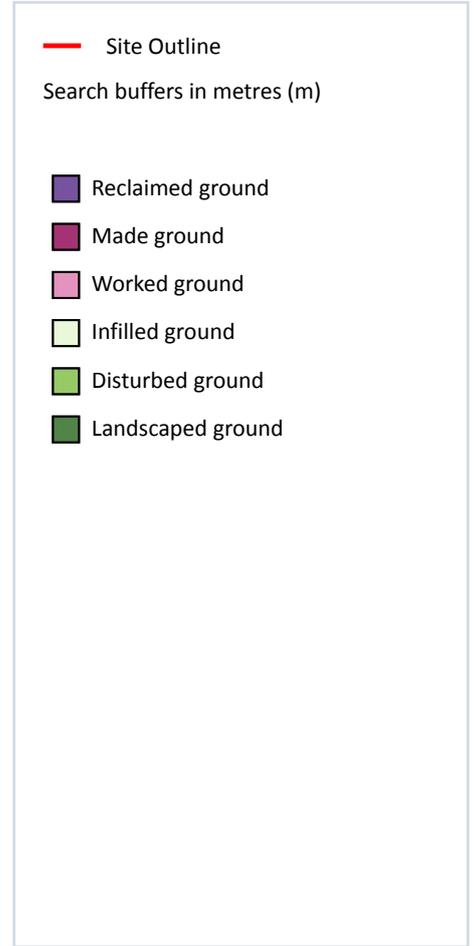
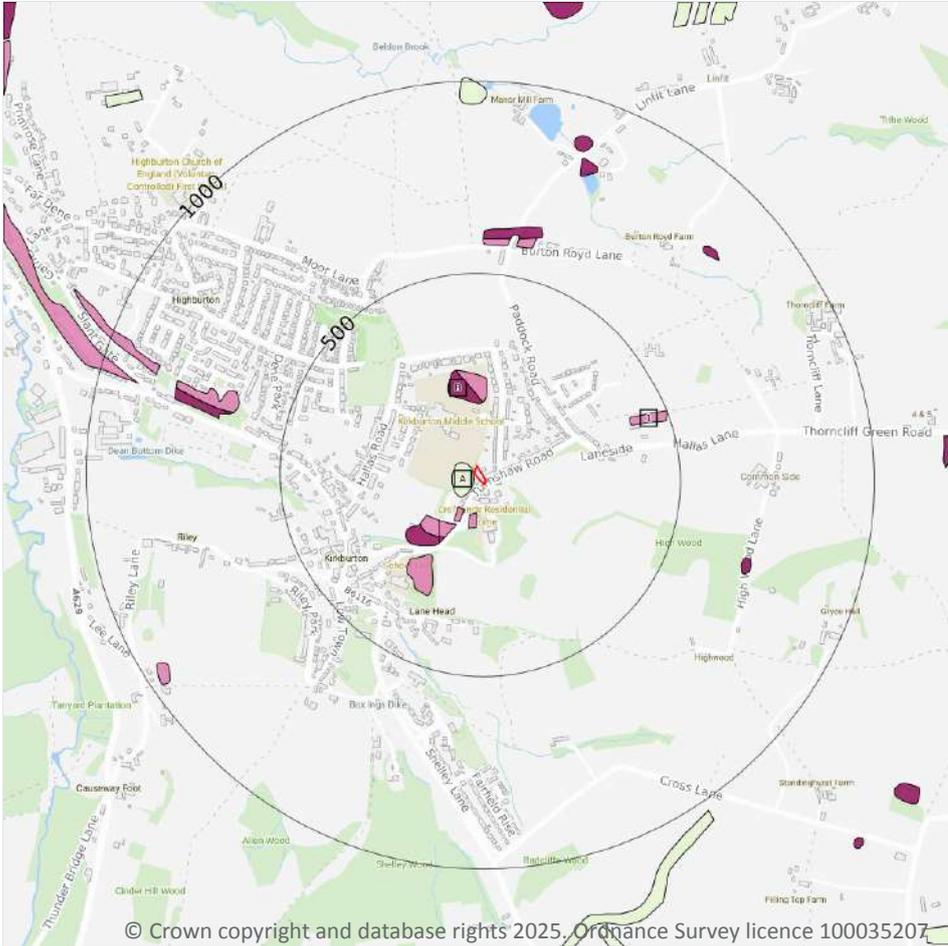
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 73](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SE21SW
2	88m W	Full	Full	Full	Full	SE11SE

This data is sourced from the British Geological Survey.

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



14.2 Artificial and made ground (10k)

Records within 500m

11

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 74](#) >

ID	Location	LEX Code	Description	Rock description
A	1m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	77m S	WGR-VOID	Worked Ground (Undivided)	Void
A	83m SW	WGR-VOID	Worked Ground (Undivided)	Void
A	126m SW	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
A	148m SW	WGR-VOID	Worked Ground (Undivided)	Void
B	162m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	166m N	WGR-VOID	Worked Ground (Undivided)	Void
A	172m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	178m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	228m SW	WGR-VOID	Worked Ground (Undivided)	Void
1	401m E	WGR-VOID	Worked Ground (Undivided)	Void

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

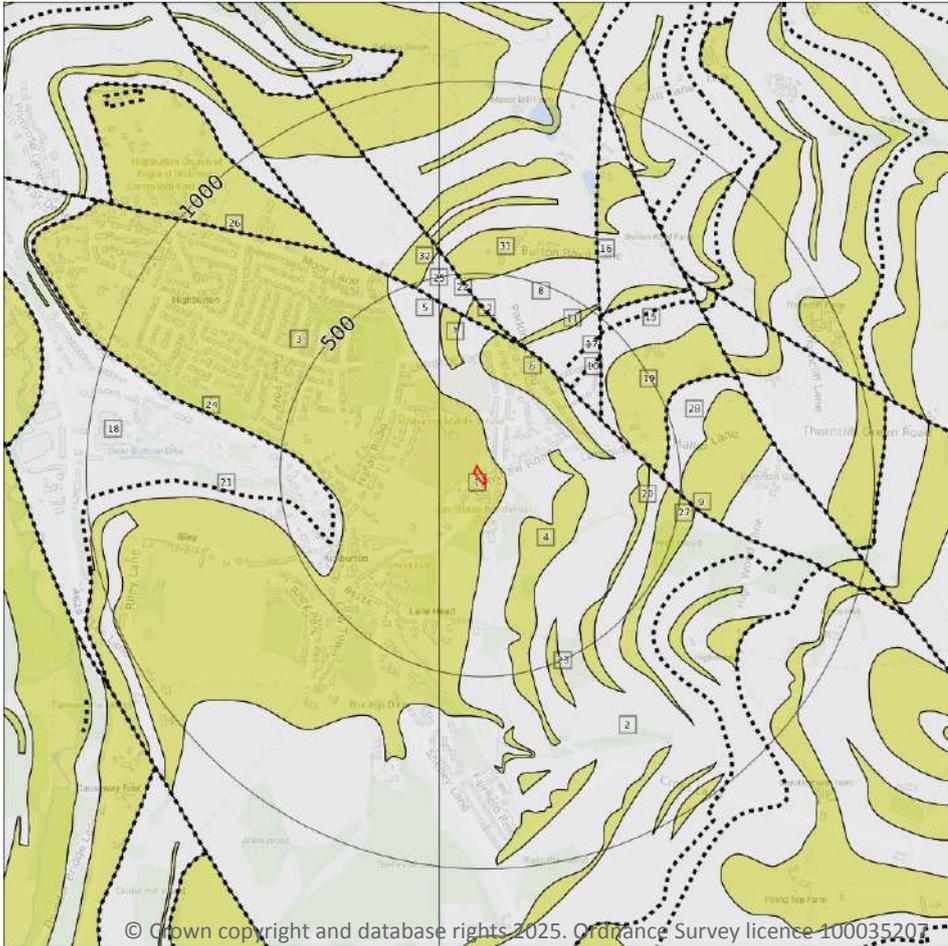
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Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

21

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 77](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	KKBS-SDST	Kirkburton Sandstone - Sandstone	Langsettian Sub-age
2	45m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
3	88m W	KKBS-SDST	Kirkburton Sandstone - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
4	139m SE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
5	218m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
6	228m N	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
7	258m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
8	312m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11	332m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
12	332m N	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
15	336m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
18	355m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
19	367m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
20	372m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
22	388m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
23	395m SE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
25	436m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
27	449m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
28	453m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
31	477m N	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
32	488m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

11

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.



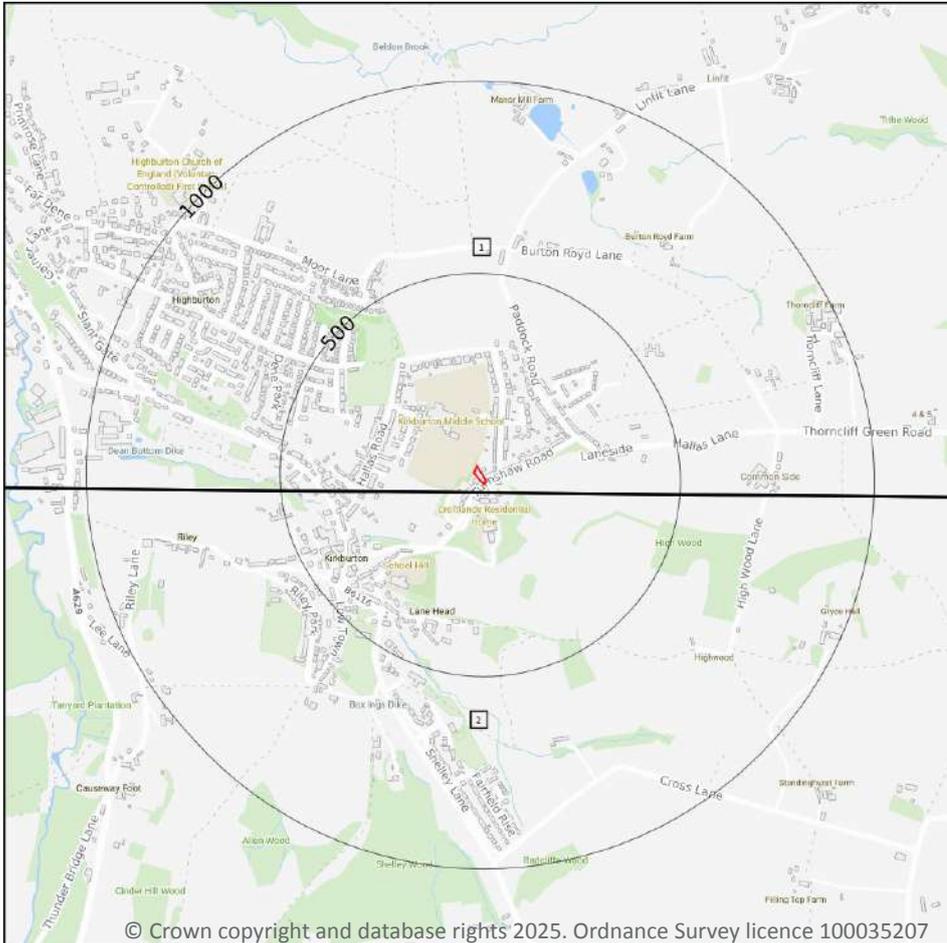
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 77 >](#)

ID	Location	Category	Description
9	312m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
10	313m NE	ROCK	Coal seam, inferred
13	332m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
14	332m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
16	336m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
17	347m NE	ROCK	Coal seam, inferred
21	374m W	ROCK	Coal seam, inferred
24	411m W	ROCK	Coal seam, inferred
26	436m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
29	453m E	ROCK	Coal seam, inferred
30	468m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

2

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 80](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW077_huddersfield_v4
2	22m S	Full	Full	Full	Full	EW086_glossop_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

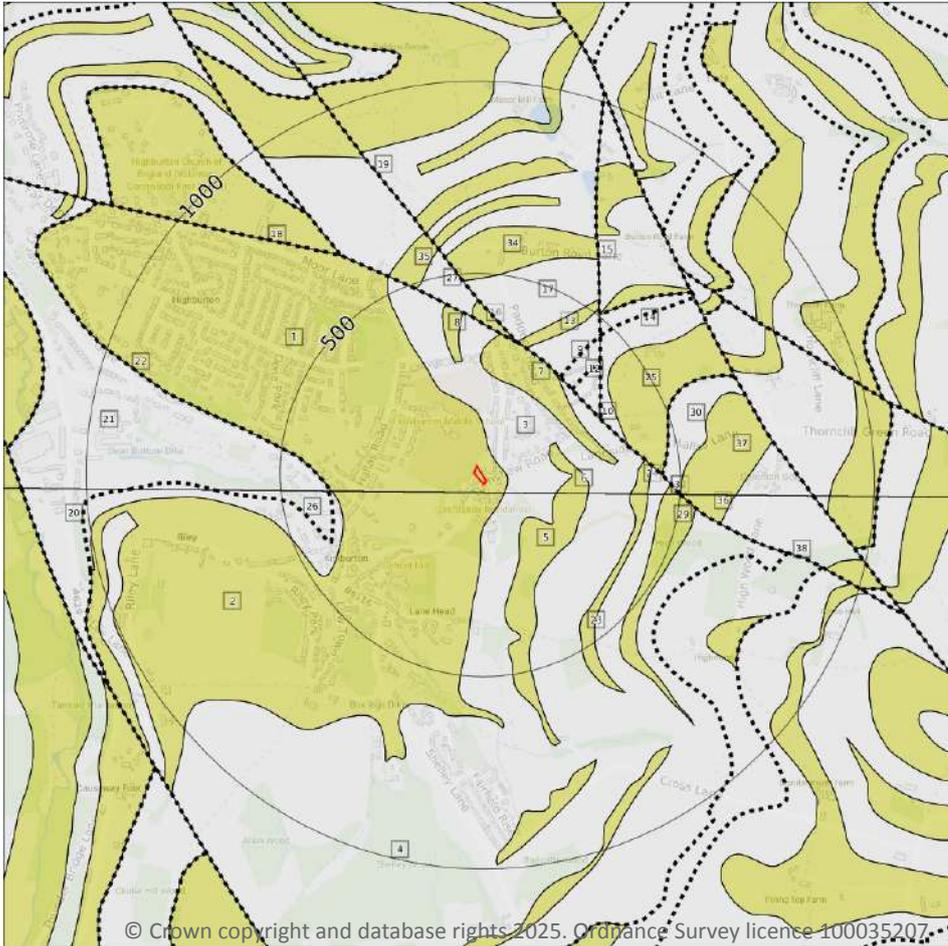
Records within 50m

0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

27

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 83](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	KKBS-SDST	KIRKBURTON SANDSTONE - SANDSTONE	WESTPHALIAN
2	21m S	KKBS-SDST	KIRKBURTON SANDSTONE - SANDSTONE	WESTPHALIAN
3	47m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
4	55m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	139m SE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
6	174m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
7	228m N	CLRK-SDST	CLIFTON ROCK - SANDSTONE	WESTPHALIAN
8	274m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
9	314m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	332m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
14	336m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	338m N	CLRK-SDST	CLIFTON ROCK - SANDSTONE	WESTPHALIAN
17	338m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
20	355m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
21	370m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
23	372m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
24	373m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
25	374m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
27	388m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
28	418m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
29	449m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
30	453m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
32	459m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
34	482m N	CLRK-SDST	CLIFTON ROCK - SANDSTONE	WESTPHALIAN
35	485m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
36	500m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
37	500m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate
47m NE	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	11
----------------------------	-----------

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 83](#) >

ID	Location	Category	Description
10	314m NE	FAULT	Fault, inferred
11	315m NE	ROCK	Coal seam, inferred
12	315m NE	ROCK	Coal seam, inferred

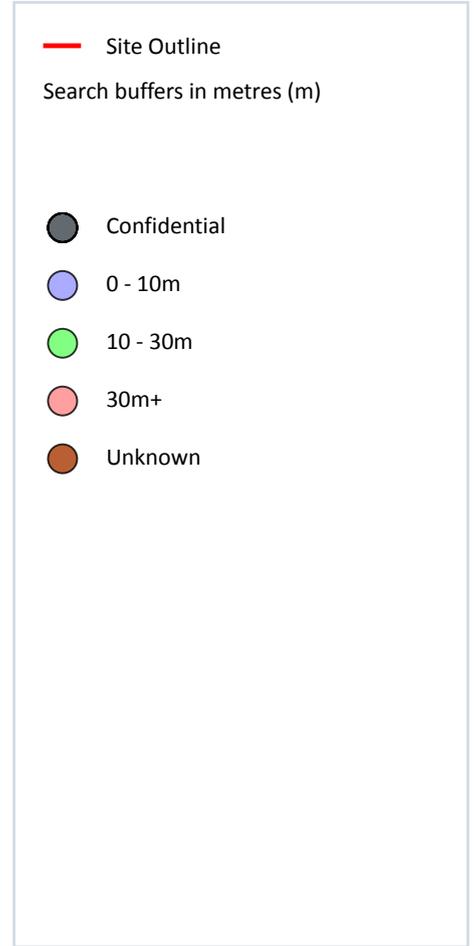
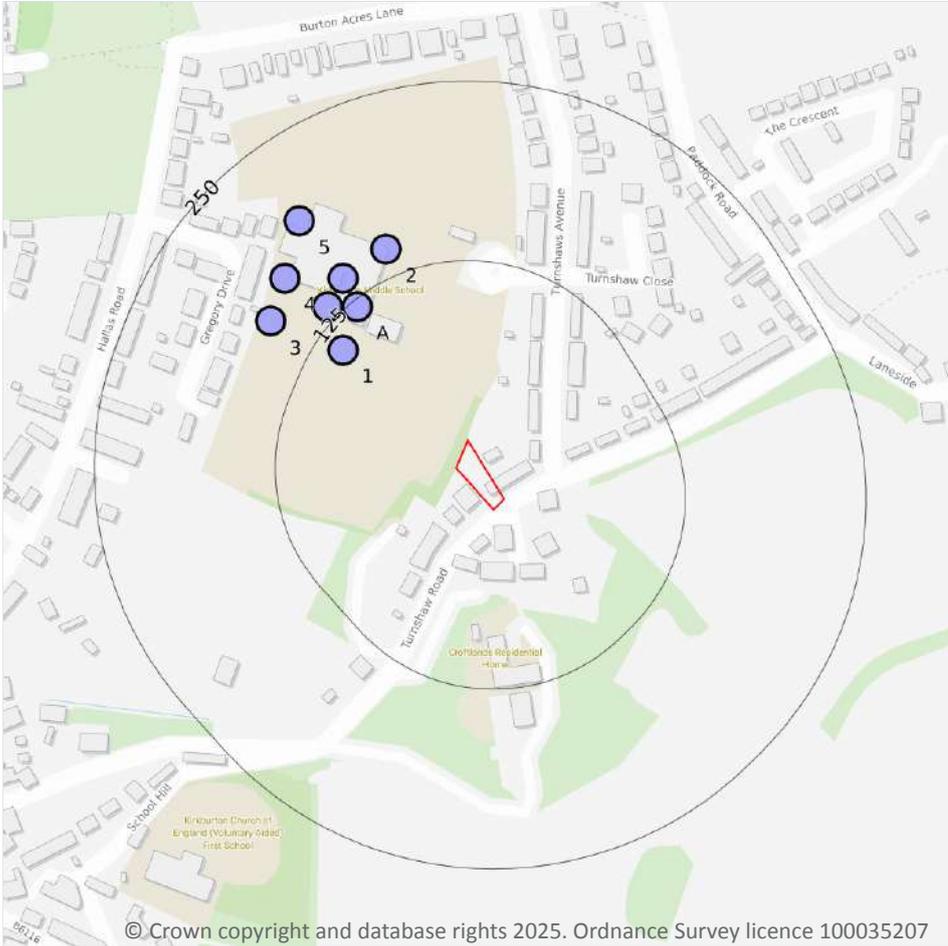


ID	Location	Category	Description
15	336m NE	FAULT	Fault, inferred
18	338m N	FAULT	Fault, inferred
19	338m N	FAULT	Fault, inferred
22	370m W	ROCK	Coal seam, inferred
26	374m W	ROCK	Coal seam, inferred
31	453m E	ROCK	Coal seam, inferred
33	465m NE	ROCK	Coal seam, inferred
38	500m E	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

8

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

Features are displayed on the Boreholes map on [page 87](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	107m NW	420010 413000	KIRKBURTON MID SCHOOL 8	2.74	N	57172 ↗
A	120m NW	420020 413030	KIRKBURTON MID SCHOOL 5	2.44	N	57170 ↗
A	134m NW	420000 413030	KIRKBURTON MID SCHOOL 6	3.05	N	57171 ↗

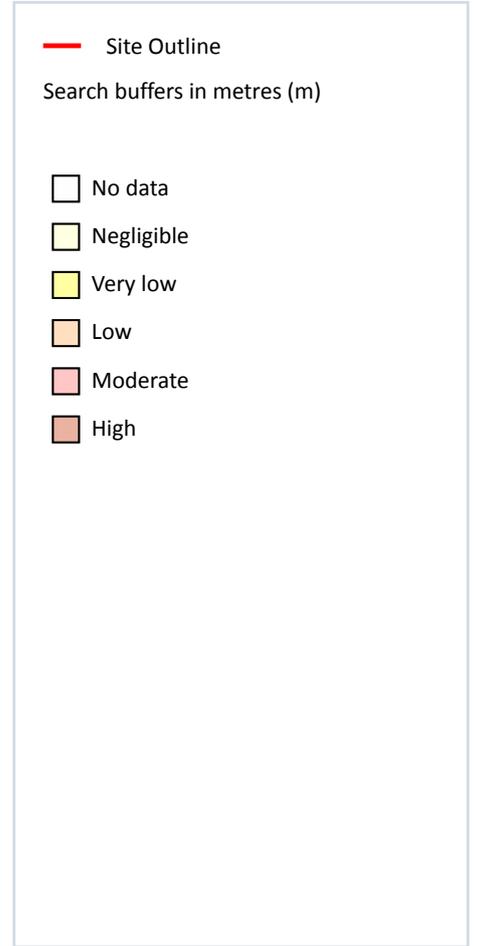
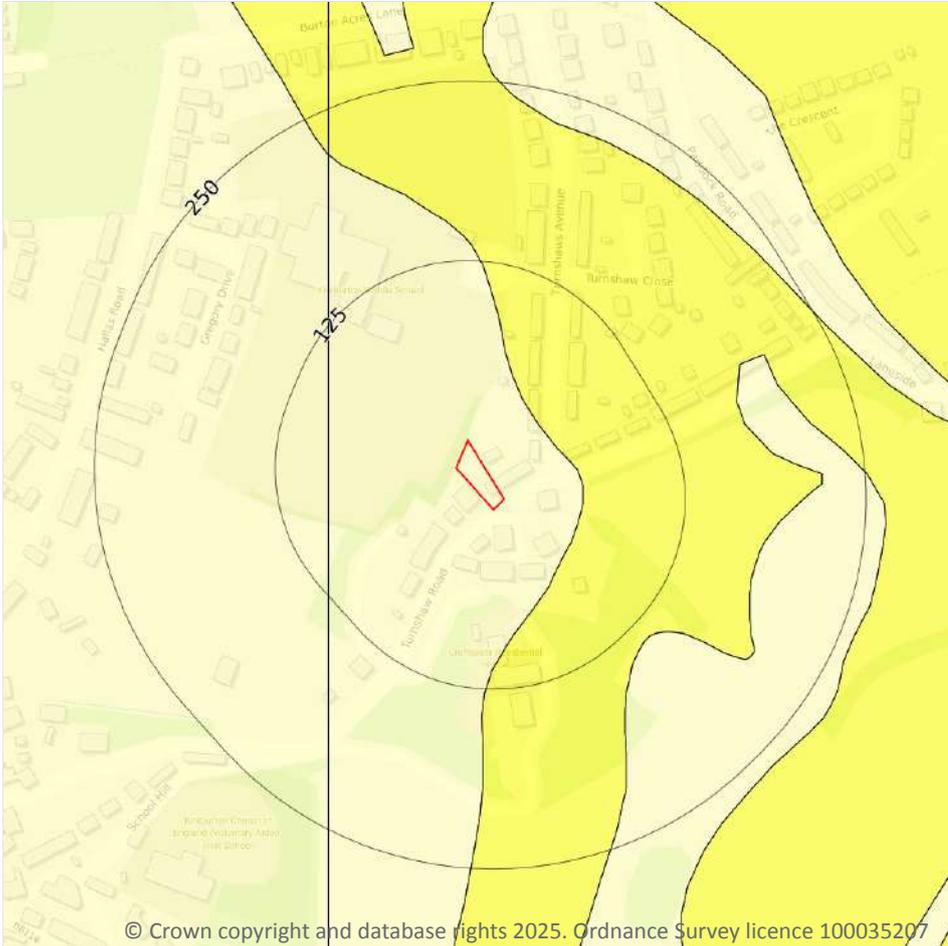


ID	Location	Grid reference	Name	Length	Confidential	Web link
A	142m NW	420010 413050	KIRKBURTON MID SCHOOL 3	2.74	N	57169 ↗
2	144m N	420040 413070	KIRKBURTON MID SCHOOL 2	3.05	N	57168 ↗
3	160m NW	419960 413020	KIRKBURTON MID SCHOOL 7	2.44	N	41495 ↗
4	169m NW	419970 413050	KIRKBURTON MID SCHOOL 4	2.13	N	41494 ↗
5	192m NW	419980 413090	KIRKBURTON MID SCHOOL 1	3.05	N	41493 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

2

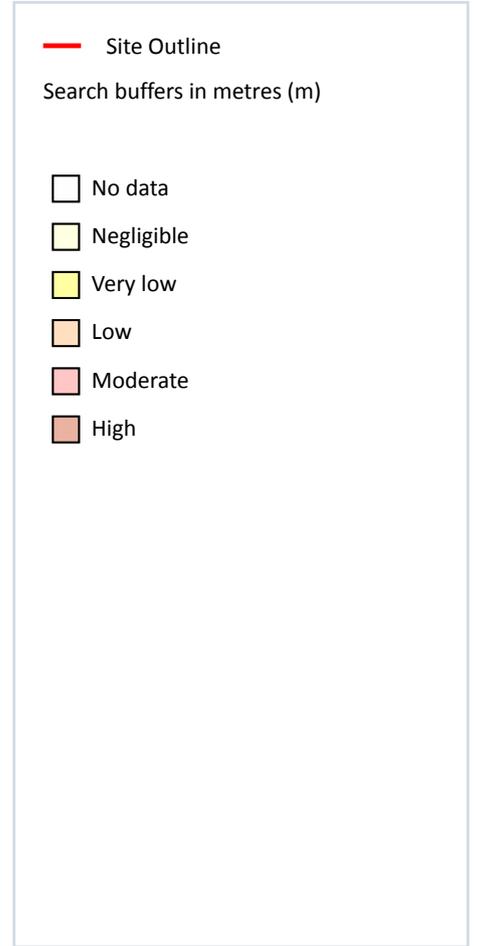
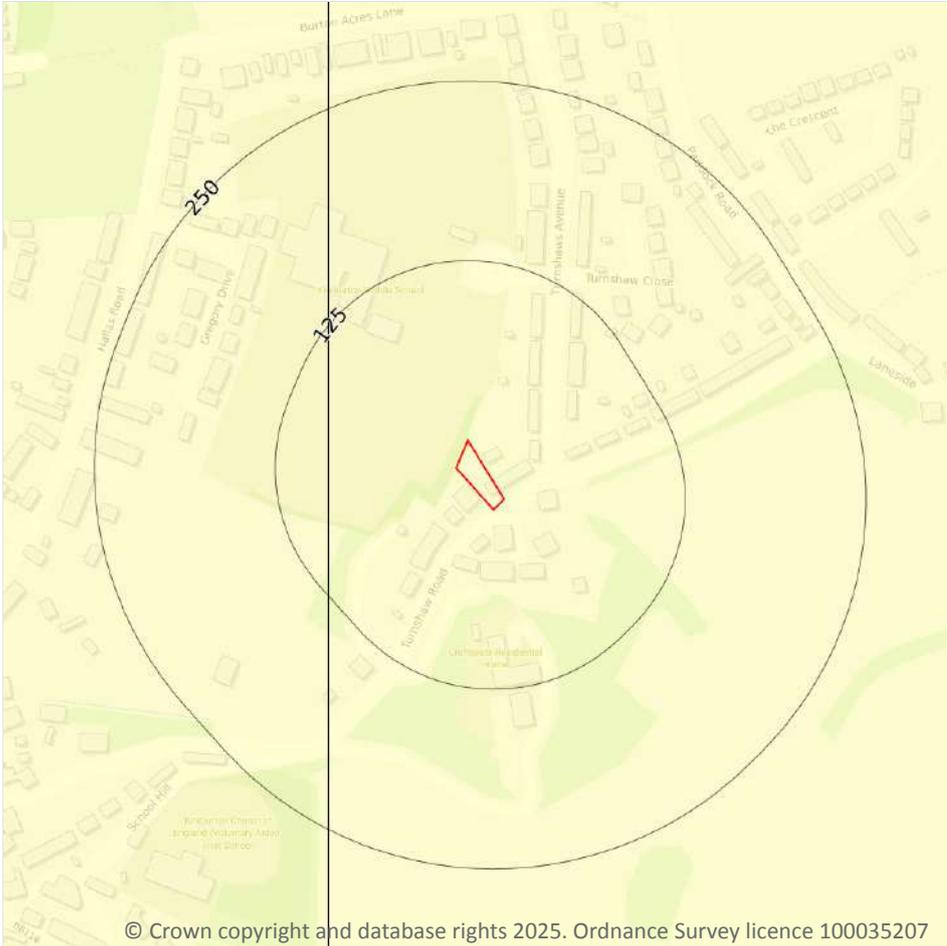
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 89](#) >

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
47m NE	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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.

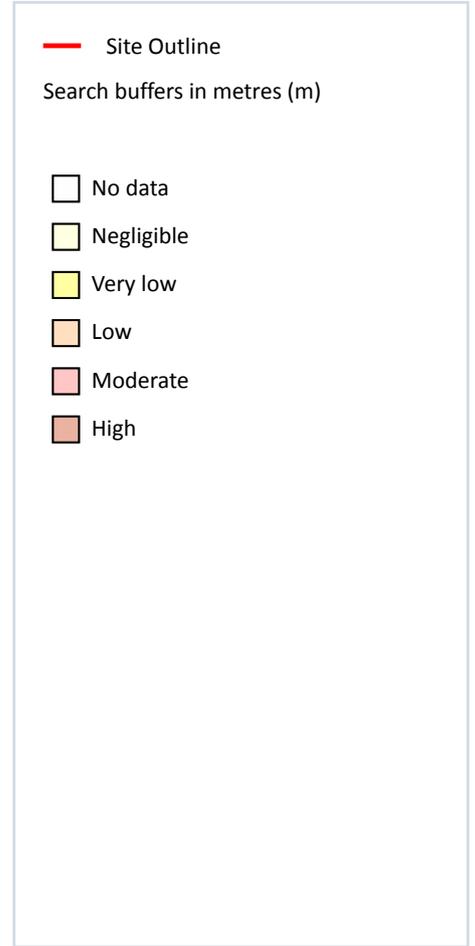
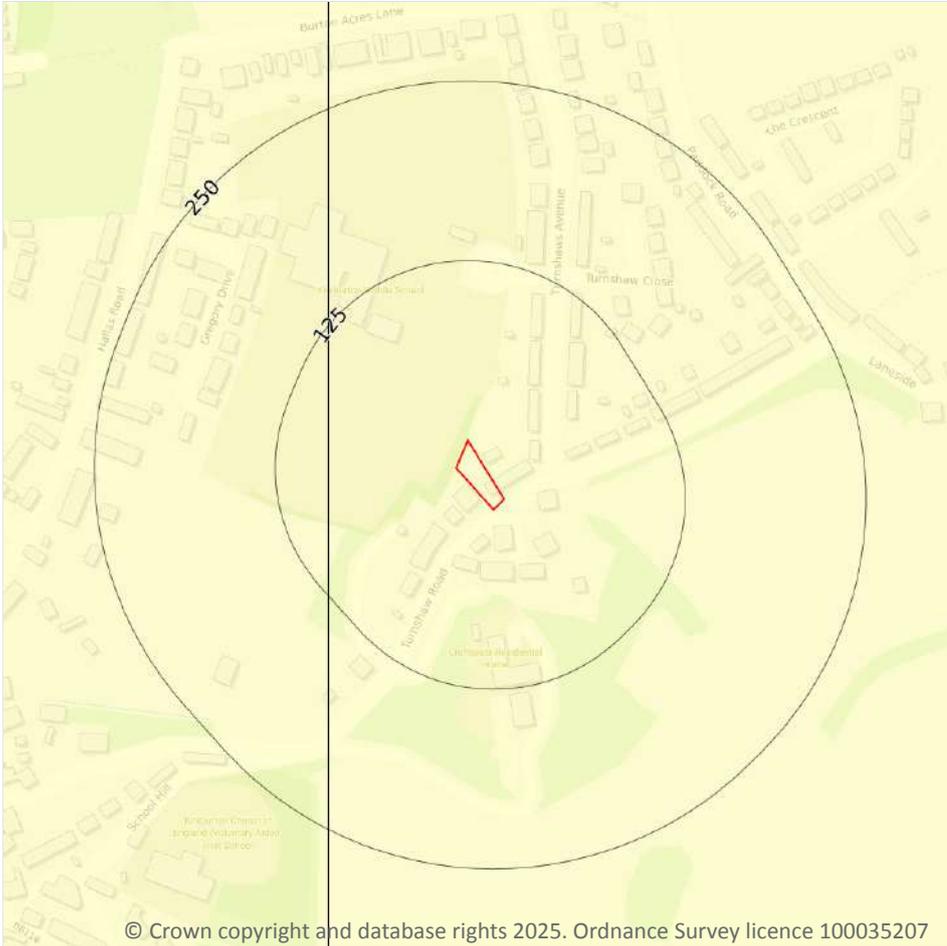
Features are displayed on the Natural ground subsidence - Running sands map on [page 90](#) >

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



17.3 Compressible deposits

Records within 50m

1

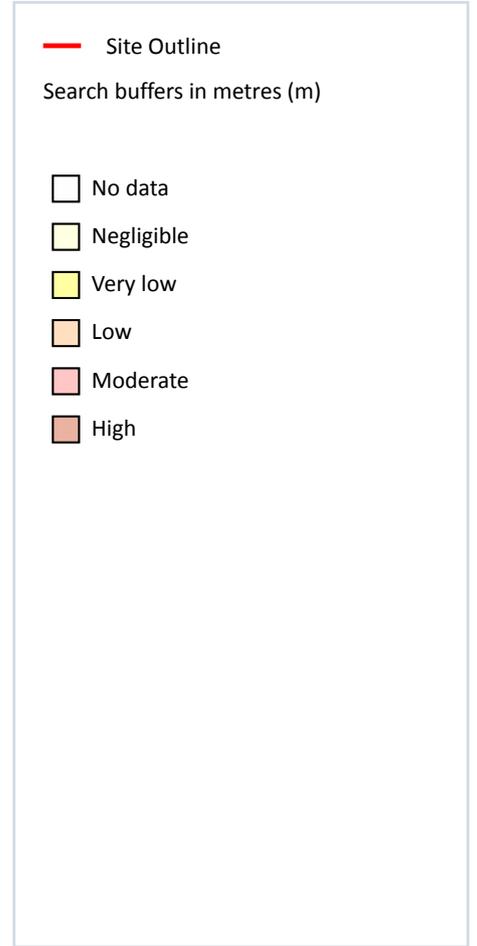
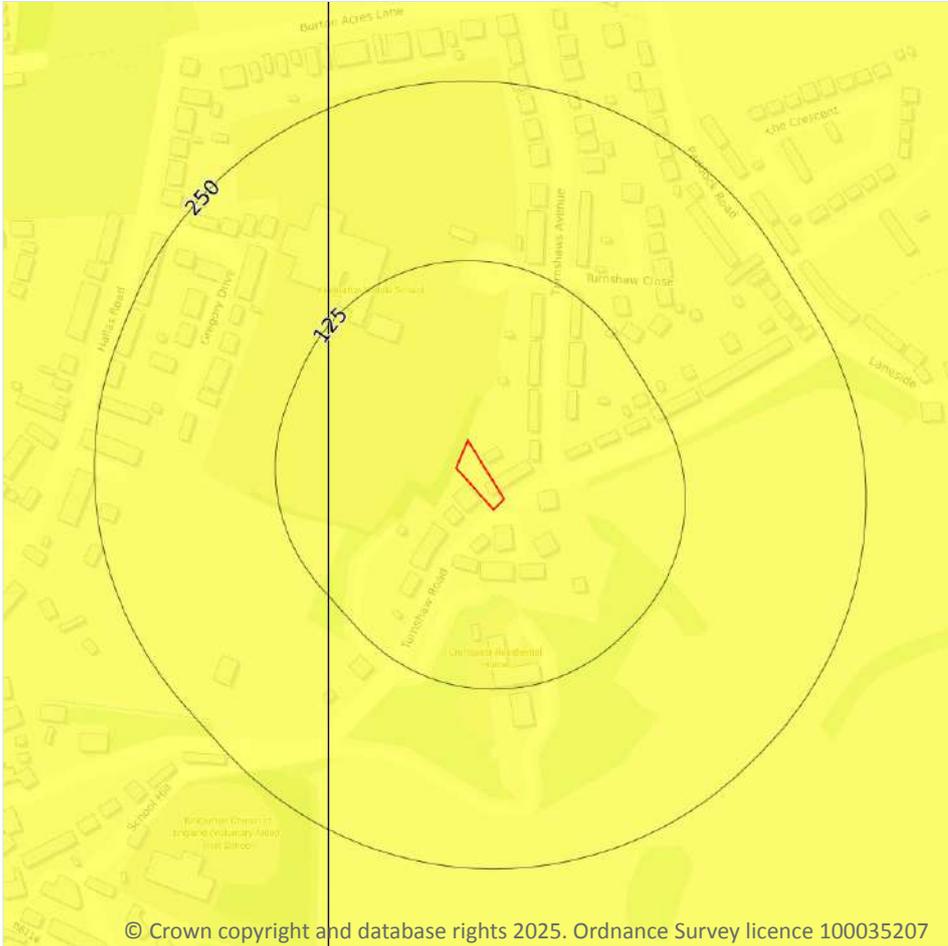
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 91](#) >

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



17.4 Collapsible deposits

Records within 50m

1

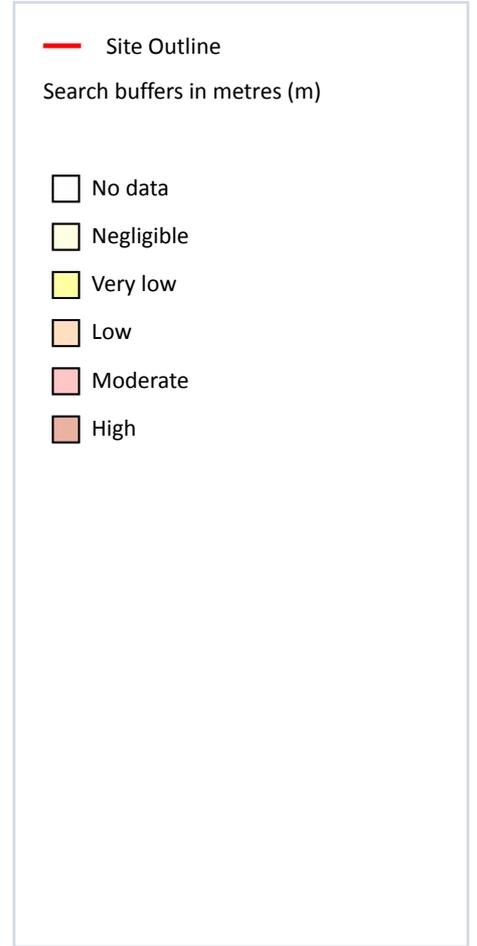
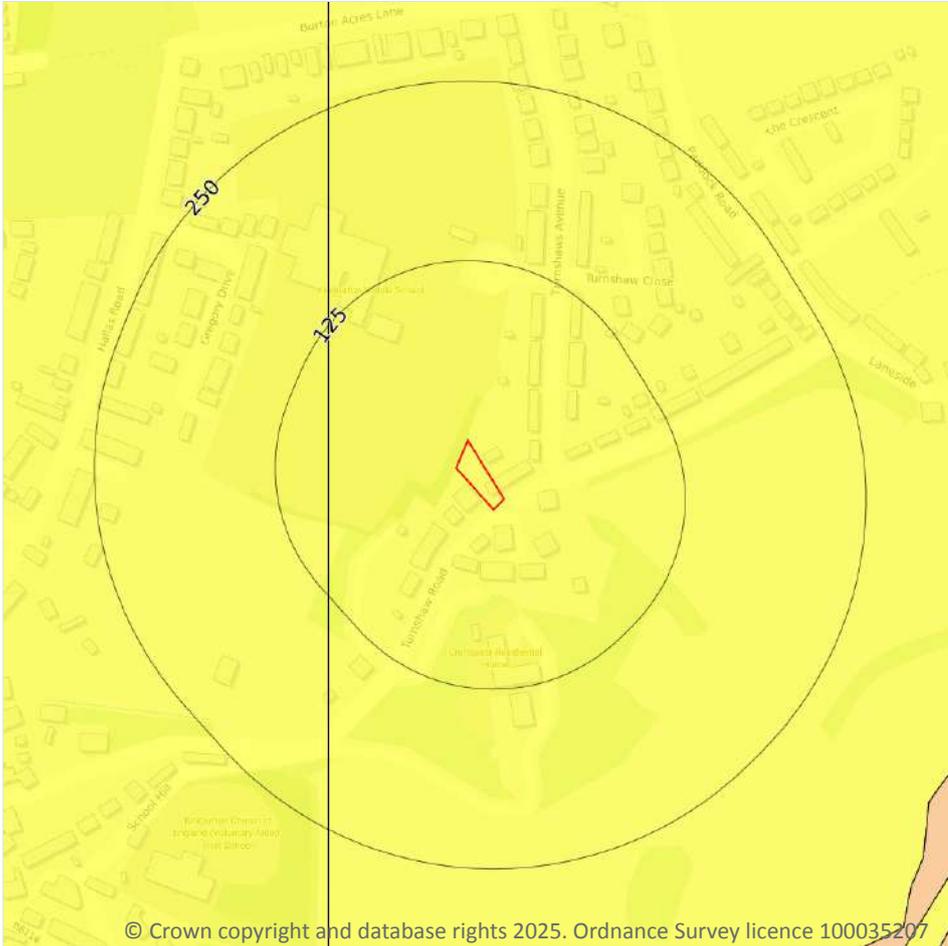
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 92 >](#)

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



17.5 Landslides

Records within 50m

1

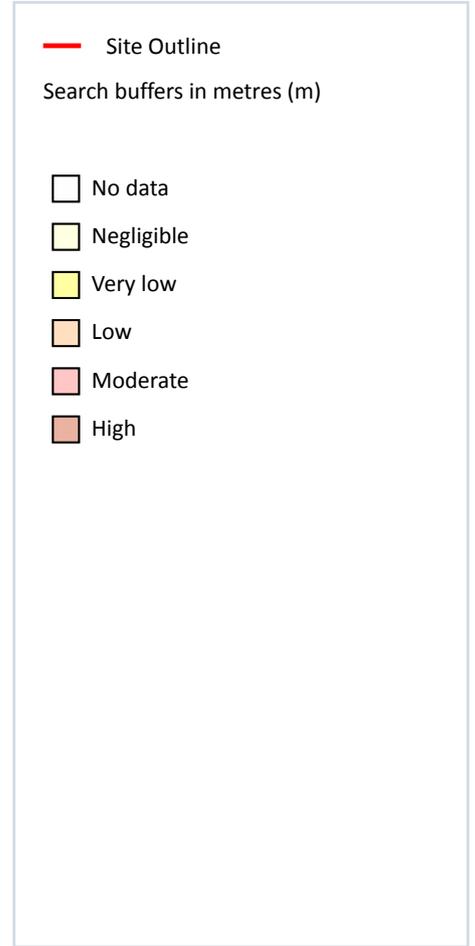
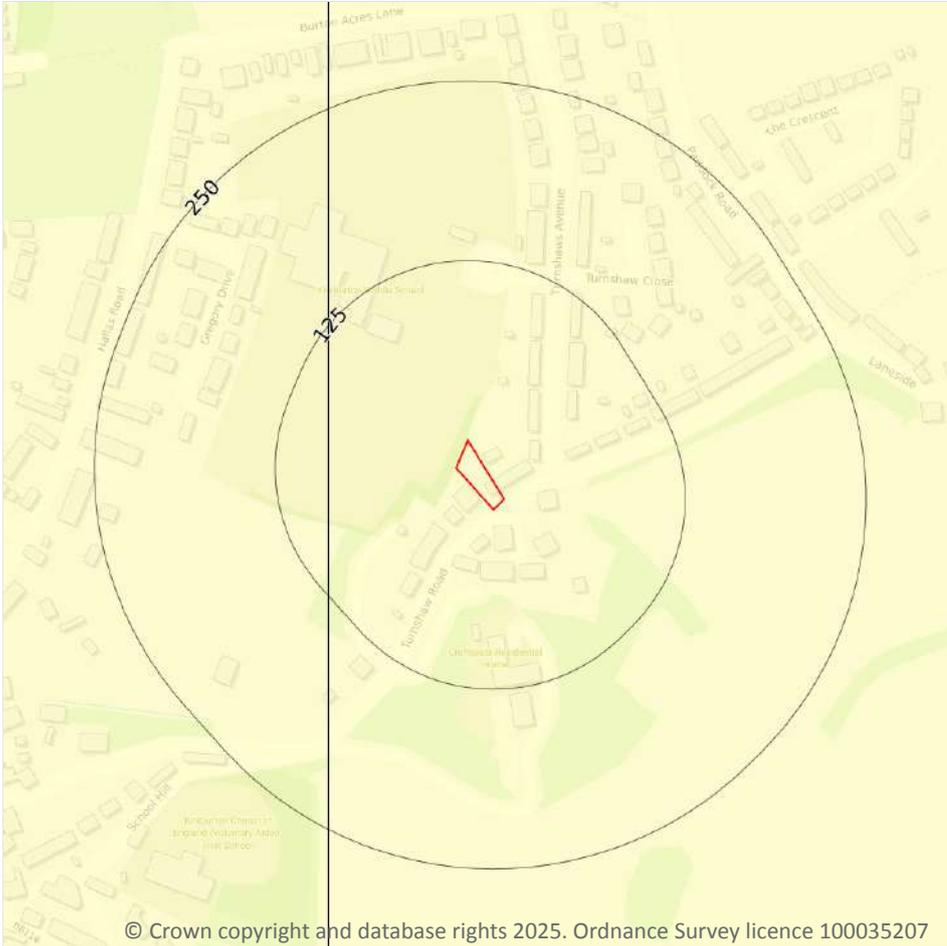
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on [page 93](#) >

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



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.

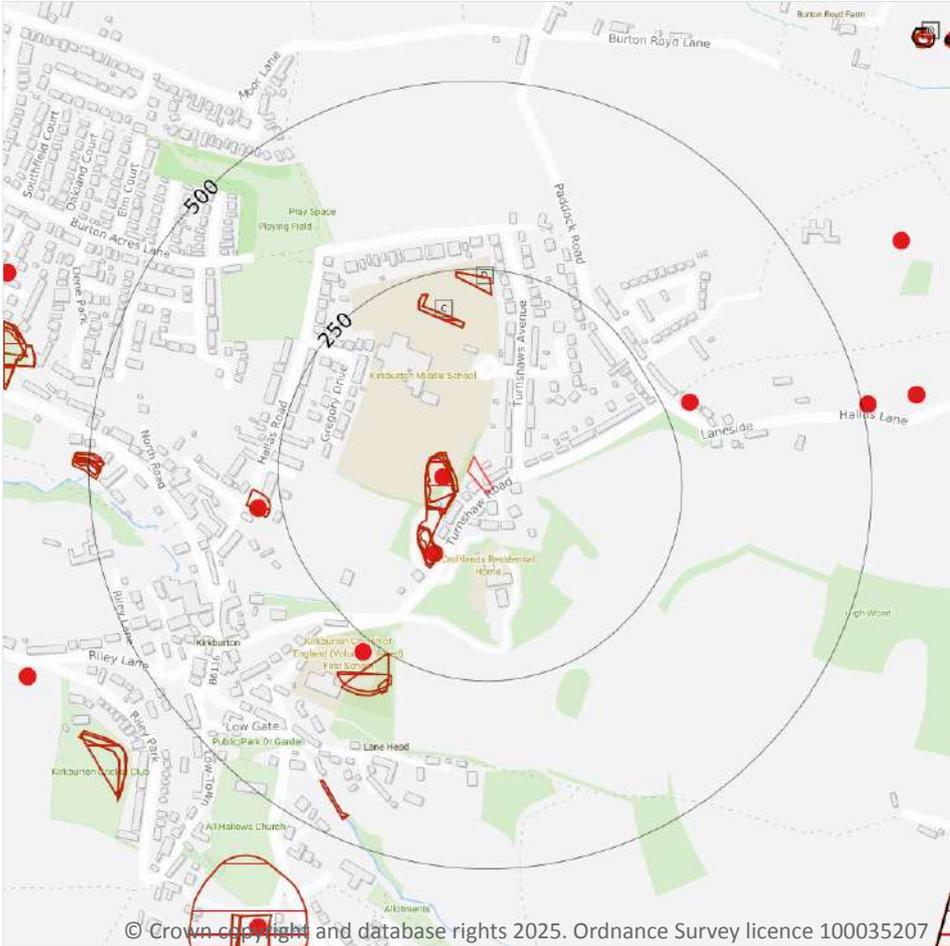
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 94](#)

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

This data is sourced from the British Geological Survey.



18 Mining and ground workings



18.1 BritPits

Records within 500m

6

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 96](#) >

ID	Location	Details	Description
A	33m W	Name: Shepley Side Address: Kirkburton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	106m SW	Name: Dene House Address: Kirkburton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	119m S	Name: Little Bretton Address: Kirkburton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	267m SW	Name: Little Bretton Address: Kirkburton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
F	281m W	Name: Dean Top Address: Kirkburton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
1	285m E	Name: Hallas Coal Pit Address: Oakroyd, Kirkburton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.



18.2 Surface ground workings

Records within 250m

13

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 96 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	18m W	Unspecified Disused Quarry	1979	1:10000
A	18m W	Unspecified Disused Quarry	1967	1:10560
A	22m W	Unspecified Disused Quarry	1955	1:10560
A	23m W	Unspecified Disused Quarry	1938	1:10560
A	25m W	Unspecified Disused Quarry	1948	1:10560
B	90m SW	Unspecified Quarry	1938	1:10560
B	91m SW	Unspecified Heap	1948	1:10560
B	91m SW	Unspecified Heap	1948	1:10560
B	92m SW	Unspecified Quarry	1904	1:10560
C	173m N	Unspecified Ground Workings	1993	1:10000
C	173m N	Unspecified Ground Workings	1979	1:10000
D	217m N	Unspecified Pit	1993	1:10000
D	217m N	Unspecified Pit	1979	1:10000

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

23

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 96 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
-	643m N	Unspecified Shaft	1904	1:10560
-	650m N	Unspecified Old Shaft	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	654m N	Unspecified Disused Shaft	1968	1:10560
-	654m N	Unspecified Disused Shaft	1977	1:10000
-	654m N	Unspecified Disused Shaft	1990	1:10000
-	654m N	Unspecified Old Shaft	1955	1:10560
-	698m E	Unspecified Old Level	1955	1:10560
-	700m E	Unspecified Old Level	1938	1:10560
-	701m N	Air Shaft	1938	1:10560
-	701m N	Air Shaft	1904	1:10560
-	707m N	Air Shaft	1955	1:10560
-	776m E	Unspecified Old Shaft	1904	1:10560
O	802m NE	Air Shaft	1993	1:10000
9	812m SE	Disused Colliery	1948	1:10560
-	812m SE	Unspecified Mine	1967	1:10560
O	833m NE	Unspecified Old Level	1955	1:10560
O	834m NE	Unspecified Old Level	1938	1:10560
-	858m N	Colliery	1892	1:10560
-	871m N	Unspecified Shaft	1938	1:10560
-	871m N	Unspecified Shaft	1904	1:10560
-	871m N	Unspecified Shaft	1955	1:10560
-	878m N	Unspecified Shaft	1955	1:10560
-	981m SE	Unspecified Level	1904	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

0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.



18.9 Researched mining

Records within 500m

0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.



18.13 Brine areas

Records on site	0
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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
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0
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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.

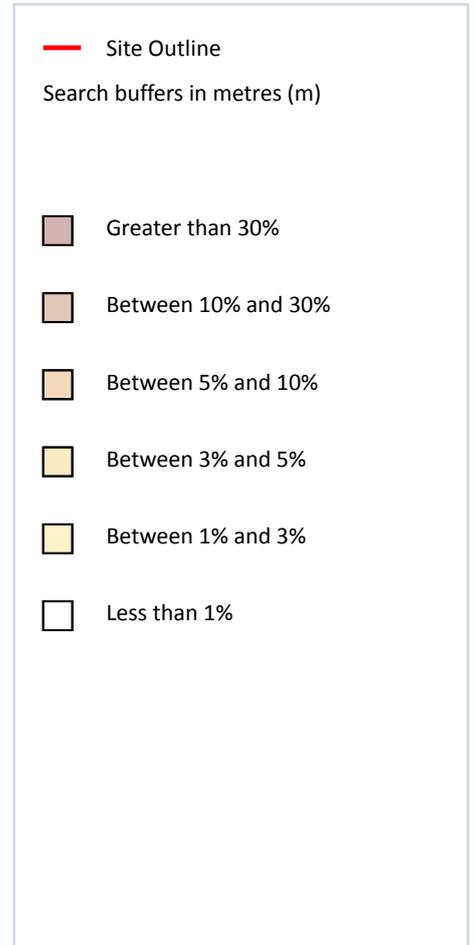
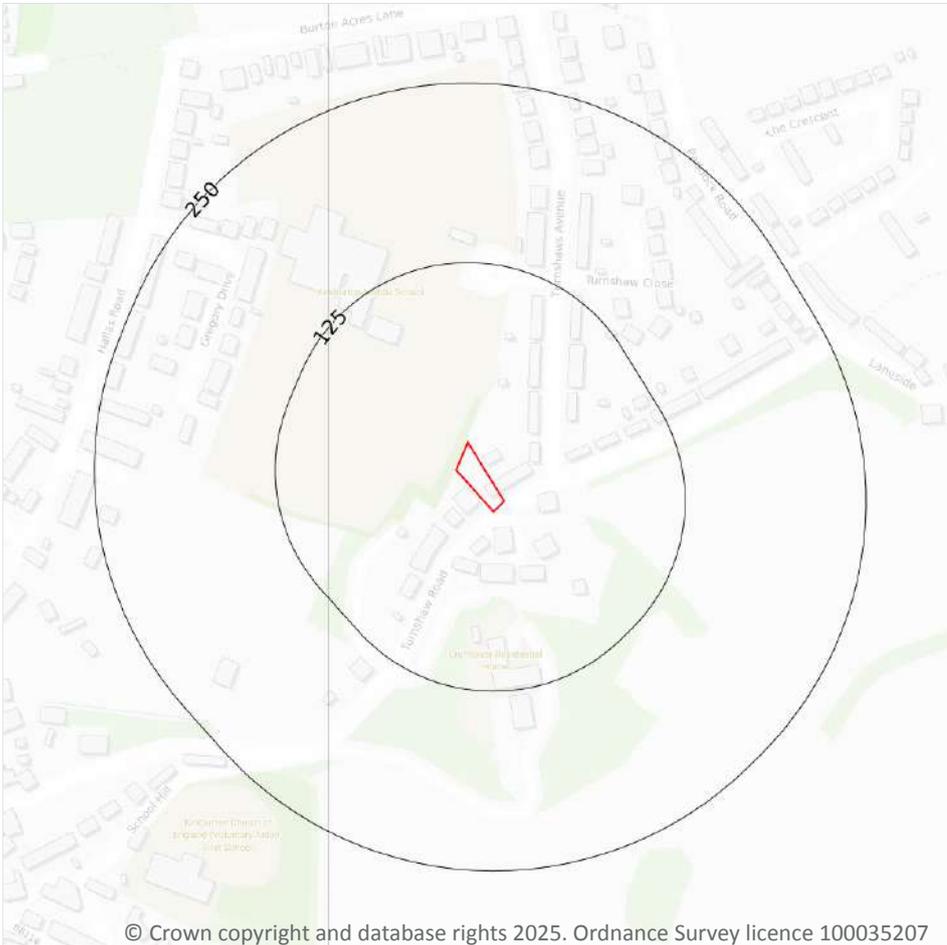
Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.



20 Radon



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 105 >](#)

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

3

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 km². 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 km²; 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	90 - 120 mg/kg	15 - 30 mg/kg
21m S	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
47m NE	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

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 km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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





APPENDIX C

PHOTOGRAPHS



Rear of the site, looking south



Rear of site, looking east



Area of Tarmacadam, running to the side of No 51, with temporary access



Centre of site, looking north (rear of site)



APPENDIX D

DEFINITIONS AND CLASSIFICATIONS OF RISK ASSESSMENT TERMINOLOGY

Definitions and Classifications of Risk Assessment Terminology.

Probability

Probability can be defined as the chance of a particular event occurring in a given period of time.

Descriptions of each of the four qualitative terms to be used in this report to describe the perceived probability of any identified pollutant linkage becoming realised are shown below in Table W.

Term	Description
High Likelihood	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.
Likely	There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.
Low Likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.
Unlikely	There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.

Table W. Description of Probability Classifications

Severity

Severity (consequence) can be defined as the adverse effects (or harm) arising from a defined hazard, which impairs the quality of human health or the environment in the short or longer term.

Descriptions of each of the four qualitative terms to be used in this report to describe the perceived potential severity of any identified pollutant linkage becoming realised are shown below in Table X.

Term	Description
Severe	<p>Highly elevated concentrations likely to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs.</p> <p>Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce.</p> <p>Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population.</p> <p>Catastrophic damage to crops, buildings or property.</p>
Medium	<p>Elevated concentrations which could result in "significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs.</p> <p>Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce.</p> <p>Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population.</p> <p>Significant damage to crops, buildings or property.</p>
Mild	<p>Exposure to human health unlikely to lead to "significant harm". Equivalent to EA Category 3 pollution incident including minimal or short-lived effect on water quality; marginal effect on amenity value, agriculture or commerce.</p> <p>Minor or short-lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.</p> <p>Minor damage to crops, buildings or property.</p>
Minor	<p>No measurable effect on humans.</p> <p>Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.</p> <p>Repairable effects of damage to buildings, structures and services.</p>

Table X. Description of Severity Classifications

Once the severity and probability of a pollutant linkage has been determined the risk can be assessed using the risk matrix shown overleaf on Table Y.

Risk Matrix

By cross referencing the derived severity and probability in Table Y, below the perceived potential risk can be determined.

		Severity			
		Severe	Medium	Mild	Minor
Probability	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

Table Y. Risk Assessment Matrix

The risk categories detailed above are defined below in the following Table Z.

Term	Description
Very High Risk	There is a high probability that significant harm could arise to a designated receptor from an identified hazard at the site without appropriate remedial action.
High Risk	Significant harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remedial action.
Moderate Risk	It is possible that without appropriate remedial action, harm could arise to a designated receptor but it is relatively unlikely that any such harm would be severe and if any harm were to occur, it is likely that such harm would be relatively mild.
Low Risk	It is possible that significant harm could arise to a designated receptor from an identified hazard but it is likely that at worst this harm if realised would normally be mild.
Very Low Risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe.

Table Z. Definition of Risk