Geo-Environmental Ltd

Consulting Geo-Environmental Engineers

Phase 1 Geo-Environmental Assessment

Storage First, Barnsley

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Prepared for:
Supashed Rochdale Limited

Date:
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Executive Summary

PWA Geo-Environmental Ltd (PWAG) was commissioned by Supashed Rochdale Limited to undertake a Phase 1 Geo-Environmental Assessment for a proposed industrial development at Storage First, Barnsley. A summary of key geo-environmental considerations is provided below. However, other issues may exist so the report must be read in full.

Key Details

Site:	The site is accessed from Ashroyds Way and is dominated by a tall steel portal frame structure and a concrete paved yard and car park. It slopes from south to north with a cutting into the slope on which the building and hardstanding areas are sat. The building is an operational storage facility split over four floors. To the north, south, and on the western edge are landscaped areas comprising grass and, bushes and trees. The landscaped slope at the rear of the building in the south is tall and steep. The landscaped slopes to the north and west slope more gently. The site is bound by steel palisade fencing in all directions. Some pallets and waste were observed in the bin area. Surrounding land use is industrial to the north, east, and south. To the west is arable land. No visual or olfactory evidence of contamination was observed on site.
Site History:	The earliest map of 1850 shows the site as agricultural land. The site remained undeveloped until the current building appeared between 2003 and 2010. From then, there has been no significant change. Surrounding land use was mostly agricultural until Hoyland Silkstone Collieries was built in 1891. This was present until between 1951 and 1965 when it became non-operational. Between 1965 and 1972 an industrial estate was built where the colliery used to lie. From this point to the present day, slow industrial growth of the estate has happened.
Geology:	The anticipated downward sequence comprises made ground over mudstone, siltstone and sandstone bedrock of the Pennine Lower Coal Measures. No superficial strata are identified on geological mapping. No coal seams are conjectured to crop on site.
Hydrogeology:	Bedrock is classed as a Secondary A Aquifer. Superficial deposits are not present on site.
Hydrology:	The closest surface water feature is an unnamed inland river 49 m north of the site at its closest.
Flooding:	The risk of surface water flooding is classified as negligible. The risk of groundwater flooding is negligible.
Sensitivity:	Overall, the site setting is considered low sensitivity.

Geo-Environmental Findings

Mining and Quarrying:	The risk to the proposed development from shallow coal mining and former quarrying activities is assessed as low and no further work is recommended with regards to this matter.
Ground Gas:	The desk study has not identified a ground gas risk associated with landfills, waste disposal sites or geogenic sources.
Radon:	No radon protection measures are required for the development. However, this must be confirmed with local building control.
Potential Contamination:	Potential sources of contamination have been identified on site relating to made ground.
Anticipated Foundations:	At this stage, no site specific geotechnical ground investigation data is available and therefore it is only possible to estimate ground conditions. Foundation solutions will be dependent on a number of parameters including finished levels, loadings, bearing capacity of the natural strata, depth to bedrock, groundwater levels, proximity of trees, slope stability etc. However, bedrock could be present at shallow depth and provide sufficient bearing capacity to enable adoption of spread foundations (i.e strip, trench fill or pad).

Contaminated Land Risk Assessment

Based on the information contained in this report, and with due regard to the commercial development, the site represents a **low risk** with respect to contaminated land liability issues.

Recommendations

To facilitate the proposed development a geo-environmental investigation should be undertaken to assess existing conditions and provide information for substructure design. As an overview, this should include:

- Investigations to confirm underlying ground conditions including the depth and composition of made ground and natural ground to determine the depth to suitable founding strata;
- Geochemical testing of representative samples to confirm suitability of reusing material on site;
- Geotechnical testing of representative samples, to evaluate the characteristics of the natural deposits; and
- Documentation of findings in a report.

Contents

1 FOREWORD 1
2 INTRODUCTION 1
2.1 The Commission and Brief 1
2.2 Geo-Environmental Assessment Methodology 1
3 SITE PROFILE 2
3.1 Site Location and Details 2
3.2 Site Reconnaissance 3
3.3 Site Regulatory and Environmental Data 4
3.4 Site History 5
3.5 Planning 6
4 ENVIRONMENTAL SETTING 6
4.1 Geology 6
4.2 Mining and Quarrying 6
4.3 Radon 8
4.4 Hydrogeology 8
4.5 Hydrology 8
4.6 Flood Risk 9
4.7 Landfill and Ground Gas Risk 9
4.8 Unexploded Ordnance 9
4.9 Environmentally Sensitive Sites 9
4.10 Summary of Environmental Sensitivity 10
5 PREVIOUS REPORTS 10
6 CONTAMINATION RISK ASSESSMENT 10
6.1 Ground Model 10
6.2 Preliminary Conceptual Site Model 10
6.3 Qualitative Risk Assessment 11
7 CONCLUSIONS AND RECOMMENDATIONS 11
8 REGULATORY APPROVALS 12

Appendices

Appendix A – Drawings

Drawing No.	Title
21.190.003C	Proposed Site Plan

Appendix B – Environmental Data Report

Appendix C – Historic Maps

Appendix D – Coal Authority Mining Report

Appendix E – Risk Evaluation

1 FOREWORD

This report has been prepared for the sole use and reliance of Supashed Rochdale Limited (the Client) and cannot be relied upon by any other parties without the express written authorisation of PWA Geo-Environmental Ltd. Any unauthorised third party relies on this report at their own risk and the authors owe them no duty of care.

The report presents observations and factual data obtained during our site walkover, along with information reviewed during the desk study and intrusive works and provides an assessment of geo-environmental issues with respect to information provided by the Client regarding the site. There may be other conditions on site not encountered during this investigation and which have not been examined. We cannot accept responsibility for any conditions not revealed by this investigation and confirmation of ground conditions between exploratory locations should be undertaken if considered necessary. Any spatial inference of ground conditions between investigation locations are for guidance only and no liability can be accepted for their accuracy.

The groundwater conditions encountered on site and recorded on exploratory records are those observed at the time of investigation. The normal rate of investigation does not enable the recording of an equilibrium water level. Furthermore, groundwater levels are subject to seasonal variation, changes in weather and changes in local drainage conditions. Therefore, this information is provided for guidance only and no liability can be accepted for their accuracy.

The report should be read in its entirety, including all associated drawings and appendices. PWA Geo-Environmental Ltd cannot be held responsible for any misinterpretations arising from the use of extracts that are taken out of context.

The findings and opinions conveyed in this report (including review of any third party reports) are based on information obtained from the sources listed, which PWA Geo-Environmental Ltd understands are reliable. All reasonable skill, care and diligence has been applied in examining the information obtained. However, PWA Geo-Environmental Ltd accepts no responsibility for inaccuracies in the data supplied or for opinions based on any such inaccurate data.

Where the report refers to the potential presence of invasive weeds such as Japanese Knotweed, or the presence of asbestos containing materials, it should be noted that the observations are for information only and should be verified by a suitably qualified expert.

PWA Geo-Environmental Ltd reserves the right to amend their conclusions and recommendations in the light of further information that may become available.

2 INTRODUCTION

2.1 The Commission and Brief

PWA Geo-Environmental Ltd (PWAG) was commissioned by Supashed Rochdale Limited to undertake a Phase 1 Geo-Environmental Assessment to support a planning application for the construction of eight new storage units in the existing car park at Ashroyds Way, Barnsley. A proposed site layout plan is included in **Appendix A**. Any changes to the proposed layout, site levels and/ or end use may require amendments to this report.

The overall objectives were to:

- Carry out a preliminary environmental risk assessment;
- Assess the level of risk associated with potential geo-environmental constraints; and
- Recommend further work where necessary.

2.2 Geo-Environmental Assessment Methodology

Key aspects of this Phase 1 are summarised as follows:

- Review the history of the site and surrounding area from historical Ordnance Survey (OS) maps and any available anecdotal information or historical reports.
- Review information provided by the Coal Authority.
- Review current activities and current condition of the site, based on information made available by the client, regulatory data relating to the site and the results of a site walkover.
- Assess the environmental setting for the site from a review of published geological, hydrogeological, hydrological and regulatory data.

- Review online Coal Authority records.
- Assess anticipated ground conditions, including potential contaminants.
- Assess anticipated foundation issues associated with the proposed development.
- Preparation of a conceptual site model and preliminary risk assessment.
- Recommendations for further work, if required.

This review relied on published information and information provided by the client and other parties, including anecdotal information, during the given time period. Regulatory data from public registers and historical OS maps were obtained from a Groundsure report and through consultation with the Environment Agency.

3 SITE PROFILE

3.1 Site Location and Details

Table 1. Site Location and Details

Address	Storage First, Ashroyds Way, Barnsley, S74 9SB	
National Grid Reference	SE 36555 01265	
Area	Approximately 1.39 hectares.	
Location	**Figure 1** (from the Groundsure Report) is included as a site location plan. 	
Ground Cover	**Ground Cover**	**Estimated percentage**
	Landscaped grass	20%

Table 1. Site Location and Details		
	Hardstand (service yard and access road)	30%
	Built units and hardstanding	50%
Known Services	The position of services is not known. A full utilities survey should be undertaken.	
Current Use	Operational storage facility and car park.	
Proposed Use[1]	Eight more storage units fronting onto Ashroyds Way where car park currently lies.	

3.2 Site Reconnaissance

Table 2. Site Description	
Summary The site is accessed from Ashroyds Way and is dominated by a tall steel portal frame structure and a concrete paved yard and car park. It slopes from south to north with a cutting into the slope on which the building and hardstanding areas are sat. The building is an operational storage facility split over four floors. To the north, south, and on the western edge are landscaped areas comprising grass and, bushes and trees. The landscaped slope at the rear of the building in the south is tall and steep. The landscaped slopes to the north and west slope more gently. The site is bound by steel palisade fencing in all directions. Some pallets and waste were observed in the bin area. Surrounding land use is industrial to the north, east, and south. To the west is arable land. No visual or olfactory evidence of contamination was observed on site.	
Date of Inspection	26/10/2022
Access	Vehicular access is off Ashroyds Way.
Topography	Topography on site slopes from south to north with a cutting into the slope on which the building and car park are sat. The slope in the south of the site behind the building is steep and vegetated with bushes and trees. The slope in the north of the site is shorter, gentler, and vegetated with grass and bushes. Surrounding land slopes in the same direction.
Description	The site is accessed from Ashroyds Way and is dominated by a tall steel portal frame structure and a concrete paved yard and car park. The building is an operational storage facility split over four floors. Surrounding the building to the north, east and west sides are areas of hardstanding for car parking or loading. A small paved path runs behind the building in the south too. To the north, south, and on the western edge are landscaped areas comprising grass and, bushes and trees. The landscaped slope at the rear of the building in the south is tall and steep. The landscaped slopes to the north and west slope more gently. The site is bound by steel palisade fencing in all directions. Some pallets and waste were observed in the bin area. Surrounding land use is industrial to the north, east, and south. To the west is arable land. No visual or olfactory evidence of contamination was observed on site.
	 Main building and car park / yard area  Interior

1. Different site uses may introduce changes to pollutant linkages that are not considered in this report.

Table 2. Site Description



Pallets and waste in bin area



Vegetated bank at rear of building



Vegetated bank at the front of site



Electricity substation at the front of the site

	North	East	South	West
Site Boundaries	Palisade fencing.	Palisade fencing.	Palisade fencing.	Palisade fencing.
Adjacent Land Uses	Industrial units.	Industrial units.	Industrial units.	Arable land.
Potential Sources of Contamination	No potential sources of contamination were identified during the site inspection.			

3.3 Site Regulatory and Environmental Data

Information regarding environmental regulatory controls and pollution incidents in proximity to the site is taken from the Groundsure Enviro Insight Report presented in **Appendix B** and summarised in **Table 3**.

Table 3. Summary of Site Regulatory and Environmental Data

Data Type	On site	0-50m	51-250m	Details	Potential to impact site?
Historical Industrial Sites					
Historical industrial land use	4	0	29	On site records relate to an industrial estate, and collieries dating back to 1891. Nearby records relate to cuttings, railway sidings, refuse heaps, and cemeteries, amongst other things.	Yes
Historical tanks	0	0	9	The closest record of tanks is 169 m east of the site.	No
Historical energy features	0	0	1	All five records relate to electricity substations. The closest record relates to one 189 m west.	No
Historical petrol stations	0	0	0	None listed.	No
Historical garages	0	0	0	None listed.	No

Table 3. Summary of Site Regulatory and Environmental Data					
Data Type	**On site**	**0-50m**	**51-250m**	**Details**	**Potential to impact site?**
Historical military land	0	0	0	None listed.	No
Environmental Permits, Incidents and Registers					
Record of COMAH sites	0	0	0	None listed.	No
Regulated explosive sites	0	0	0	None listed.	No
Hazardous substances storage/ usage	0	0	0	None listed.	No
IPC Authorisations	0	0	0	None listed.	No
Licensed Industrial Activities	0	0	0	None listed.	No
Red List Discharge to controlled waters	0	0	0	None listed.	No
Radioactive Substance Authorisations	0	0	0	None listed.	No
Licensed Discharge Consents	0	0	2	Closest record is 208 m east and relates to timber manufacturing.	No
Recorded Pollution Incidents (EA/NRW)	0	0	2	The nearest pollution incident was 142 m east of site and comprised a contaminated water incident with no impact to water and air and minor impact to land.	No
Sites Determined as Contaminated Land	0	0	0	None listed.	No
Current Land Use					
Industrial Sites Data	2	1	10	The two on site records relate to the Store First storage facility, and an electricity substation.	No
Petrol and Fuel Sites	0	0	0	None listed	No
IPC = Integrated Pollution Control; IPPC = Integrated Pollution Prevention & Control; LAPPC = Local Authority Pollution Prevention & Controls; APC = Air Pollution Control; COMAH = Control of Major Accident hazards; NIHHS – Notification of Installations Handling Hazardous Materials.					

3.4 Site History

A study of historical Ordnance Survey (OS) maps has been undertaken to identify potentially significant geo-environmental constraints on or near the site. Salient points relating to the history of the site and surrounding area are detailed in **Table 4**. A full copy of the historical maps is included in **Appendix C**.

Table 4. Site History Summary		
Summary The earliest map of 1850 shows the site as agricultural land. The site remained undeveloped until the current building appeared between 2003 and 2010. From then, there has been no significant change. Surrounding land use was mostly agricultural until Hoyland Silkstone Collieries was built in 1891. This was present until between 1951 and 1965 when it became non-operational. Between 1965 and 1972 an industrial estate was built where the colliery used to lie. From this point to the present day, slow industrial growth of the estate has happened.		
Date	**Site**	**Surrounding Land**
1850-1855	The site is shown as agricultural land.	The surrounding area is shown as agricultural land with Upper Hoyland approximately 300 m west. Coal shafts and pits are present approximately 450 m north east of the site. Nether Hoyland lies approximately 750 m to the south east. A railway runs from north east to south west 750 m north of the site.
1891	No significant change.	Hoyland Silkstone Collieries are now present 100 m north east of site at its closest. A railway line connects the colliery to the main railway line to the north.
1893	No significant change.	No significant change.

Table 4. Site History Summary		
1901-1906	No significant change.	No significant change.
1929-1931	No significant change.	Further development of the colliery with a water cooler, cooling pond, and tanks now present. Further residential development to the east and south of site.
1938	No significant change.	Further residential development to the south of site.
1948-1951	No significant change.	The colliery has shrunk. Further residential development to the south of site.
1965-1966	No significant change.	The colliery is no longer present. Instead, 'Mine' is marked on the map where it used to lie. The railway that connected the colliery to the main line is now labelled 'Dismantled Railway'. Further residential development to the east and south of site.
1972-1979	No significant change.	An industrial estate is now built where the colliery used to lie. Further residential development to the east and south of site.
1987-1993	No significant change.	Growth of the industrial estate. Railway to the north is now labelled 'Dismantled Railway'.
2001-2003	No significant change.	Further industrial estate development.
2010	Large industrial unit present on site.	Industrial estate to the east now named Platts Common Industrial Estate.
2022	No significant change.	Further industrial estate development.

3.5 Planning

Barnsley Metropolitan Borough Council planning portal identified five planning applications relating to the site. Three were historic, with the other two relating to the erection of palisade fencing and gates in 2009, and the construction of three industrial units in 2006.

4 ENVIRONMENTAL SETTING

4.1 Geology

Online British Geological Survey (BGS) published geological data and the Geo Insight report presented in **Appendix B**, and the BGS 1:50,000 Series Sheet shows the following geological sequence.

Table 5. Mapped Geology	
Summary The anticipated downward sequence comprises made ground over mudstone, siltstone and sandstone bedrock of the Pennine Lower Coal Measures. No superficial strata are identified on geological mapping. No coal seams are conjectured to crop on site.	
Item	**Description**
Topsoil	Not shown on mapping but expected to be present in landscaped areas.
Made Ground	Not shown on mapping but expected to be present.
Superficial	Not shown on mapping.
Bedrock	Bedrock comprises undifferentiated mudstone, siltstone and sandstone of the Pennine Middle Coal Measures Formation (PMCM). Within this sequence are a number of named coal seams. No coal is conjectured to crop on or near to site.
BGS Borehole Records	There is one BGS borehole record (SE30SE127) available approximately 160 m south west of site. This identified: • Made ground to 0.25 m bgl. • Clayey, sandy silt to 1.2 m bgl. • Sandstone to 6.6 m bgl, where the borehole was terminated. • Water was not encountered.

4.2 Mining and Quarrying

The Coal Authority Interactive Map viewer and historical OS maps were reviewed to determine potential constraints associated with former mining and quarrying activities.

No historical quarrying has been identified within 100 m of the site boundary. The closest quarry was located approximately 150 m east of the site on the 1893 to 1906 maps. By 1931 this quarry was identified as a cooling pond and had been built over with a joinery by 1972. The risk to the proposed development from former quarrying activities is assessed as low and no further work is recommended with regards to this matter.

The site was found to be in a Coal Mining Reporting Area but not in a development high risk area. The table below summarises potential issues identified by the Coal Authority Interactive Map viewer:

Table 6. Coal Authority Interactive Map Information

Information	Site Affected	Comment
Coal Mining Reporting Area	Yes	A report is presented in **Appendix D**.
Mine Entry	No	There are no known mine entries present on site or within 20 metres of the site boundary.
Development High Risk Area	No	Much of the surrounding land is identified as a development high risk area, but no part of the site is. 
Past Shallow Coal Mine Workings	No	No past shallow coal mine workings are shown on or within the vicinity of the site.
Probable Shallow Coal Mine Workings	No	Not shown on or close to site.
Coal Outcrops	No	Coal outcrops are shown approximately 150 m east of the site in a band trending in a northeast to southwest direction. 

The table below summarises information from the Coal Authority mining report.

Table 7. Coal Mining Risk Assessment

Summary

The Coal Authority mining report indicates that the property is within an area where coal has been mined in the past. However, the risk to the proposed development from shallow coal mine workings is assessed as low and no further work is recommended with regard to this matter.

Issue	Yes	No	Risk Assessment
Past underground coal mining (recorded at shallow depths).		No	The property is in a surface area that could be affected by underground mining in 9 seams of coal at 110 m to 460 m depth, and last worked in 1976. Any movement in the ground due to coal mining activity associated with these workings should have stopped by now."
Present underground coal mining.		No	The property is not within a surface that could be affected by present underground mining.
Mine entries (shafts and adits).		No	There are no known mine entries within, or within 20 metres, of the boundary of the property.
Coal mining geology (fissures).		No	The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

Table 7. Coal Mining Risk Assessment			
Coal mining subsidence		No	The Coal Authority has not received a damage notice or claim for the subject property or any property within 50 m of the enquiry boundary since 1994.
Mine gas		No	The Coal Authority has no record of a mine gas emission requiring action.
Surface mining (opencast workings)		No	No past, present or future opencast sites recorded within 200 m of the enquiry boundary.

4.3 Radon

The property is within a Radon Affected Area, as between 1% and 3% of properties are above the action level. No radon protection measures are required for developments undertaken in these areas. However, the requirement for radon protection measures for any proposed development should be confirmed with local building control.

4.4 Hydrogeology

The following hydrogeological assessment is based upon data from the Groundsure report.

Table 8. Hydrogeology		
Summary Bedrock is classed as a Secondary A Aquifer. Superficial deposits are not present on site.		
	Superficial Geology	**Bedrock Geology**
Aquifer status	No superficial deposits underlying site.	Secondary A Aquifer.
Abstractions within 500m	N/A.	None.
Source Protection Zone (within 500 m)	N/A.	None.
Anticipated groundwater flow	N/A.	Not known.
Permeability	N/A.	Secondary A aquifer has permeable layers capable of supporting water supplies at a local scale.
Rainwater infiltration - potential for soakaways	N/A.	Absence of superficial deposits is beneficial. If bedrock is present at shallow depth it may be possible.
Groundwater vulnerability	N/A.	Medium – well connected fractures form the flow mechanism.

4.5 Hydrology

The following hydrological assessment is based upon data from the Groundsure report and the EA Catchment Data Explorer.

Table 9. Hydrology	
Summary The closest surface water feature is an unnamed inland river 49 m north of the site at its closest.	
Item (within 250 m radius)	**Comments**
Nearest surface waterbody	The closest surface water feature is an unnamed inland river 49 m north of site.
Pollution Incidents	None on site. Closest record is from June 2003 when there was a contaminated water incident 142 m east, causing no impact to air or water and only minor impact to land.
Surface water abstractions	None on site, or within 2000 m of site.

Table 9. Hydrology	
Discharge consents	None within 500 m of site.
Latest ecological quality	Not classified.
Latest chemical quality	Not classified.
Surface water sensitivity	Low given urban/ industrial catchment.

4.6 Flood Risk

There are no records relating to historical floods on or within 250 m of site.

The highest flood risk on site is negligible.

The risk of surface water flooding is classified as negligible.

The risk of groundwater flooding is negligible.

No further consideration of flood risk is undertaken in this report.

4.7 Landfill and Ground Gas Risk

The following information regarding landfills and other waste sites is taken from the Groundsure Report.

Table 10. Summary of Landfill and Other Waste Sites

Summary
The desk study has not identified a ground gas risk associated with landfills, waste disposal sites or geogenic sources.

Data Type	0-250 m	251-500 m	Details	Potential for Impact on-site?
Active or recently closed landfill sites under EA/NRW regulation	0	0	None recorded.	No
Historical landfill (BGS/DoE records)	0	0	None recorded.	No
Historical EA/NRW Landfill Sites	0	0	None recorded.	No
Historical waste sites	0	0	None recorded.	No
EA/NRW Licensed Waste Sites	0	0	None recorded.	No
Waste Exemptions	8	2	Two waste exemptions are present on site, and they both relate to storing waste exemptions.	No
Geological Conditions	Based on a review of geological conditions we do not expect a ground gas risk to be associated with underlying geology.			

EA = Environment Agency; NRW = Natural Resources Wales; BGS = British Geological Survey; DoE = Department of the Environment.

4.8 Unexploded Ordnance

A Zetica Unexploded Bomb Risk Map indicates the site to be in an area of low risk. In such cases Zetica advises that 'there is no greater probability of encountering UXO than anywhere else in the UK' and 'works can proceed with no special precautions'.

4.9 Environmentally Sensitive Sites

The following records of designated environmentally sensitive sites have been identified within 500 m of the site:

- Green Belt is located 277 m north of the site.
- The site is located within a Site of Special Scientific Interest (SSSI) Impact Risk Zone. The proposed development does not appear to require consultation.

- The site is within a nitrate vulnerable zone affecting the River Dearne.

4.10 Summary of Environmental Sensitivity

The environmental sensitivity of the site has been established based on the following reasons.

Table 11. Sensitivity of Environmental Receptors and Mitigating Aspects			
Summary Overall, the site setting is considered **low** sensitivity.			
Receptor Type	**Receptor(s)**	**Sensitivity**	**Reason**
Groundwater - bedrock	Secondary A Aquifer	Low	Bedrock is anticipated at shallow depth. Bedrock comprises mudstone, siltstone and sandstone that is classified as a Secondary A Aquifer.
Surface water	Unnamed stream 49 m north of the site.	Low	Site and the stream are separated by industrial land and is not clearly identified on mapping.
Site setting	Local environment	Low	Surrounding land is industrial.
Proposed Industrial units	Future site users	Low	The site is proposed to be developed with an industrial unit.
These factors are further mitigated by: • The absence of groundwater source protection zone within 500 m. • Industrial land use of the industrial estate.			

5 PREVIOUS REPORTS

No previous reports were made available for the study site.

6 CONTAMINATION RISK ASSESSMENT

6.1 Ground Model

Ground conditions are anticipated to comprise concrete and asphalt hardstand or topsoil over an unknown depth of made ground (potentially arising from cut and fill activities). Underlying natural geology is expected to comprise undifferentiated Coal Measures strata. The presence of shallow coal seams are not anticipated.

Regional groundwater is expected to be present in the Secondary A Aquifer.

6.2 Preliminary Conceptual Site Model

Based on the desk study information, a preliminary conceptual site model (CSM) has been developed. This section summarises the understanding of surface and sub-surface features, potential contaminant sources, receptors that could be affected (such as human health and controlled waters) and pathways linking the two.

Table 12. Source, Pathway and Receptors		
Potential Sources of Contamination	**Potential Transport Pathways and Pollutant Linkages**	**Potential Receptors**
On-site sources Potential sources of contamination identified include: • Made ground. Contaminants could include heavy metals, polycyclic aromatic hydrocarbons, total petroleum hydrocarbons and asbestos. **Off-site sources** None identified.	• Direct contact, ingestion or inhalation of soil bound contaminant. • Leaching of contaminants into groundwater followed by migration of groundwater to the wider environment or surface water.	**Controlled waters** • Underlying Secondary Aquifer. **Human Health** • Current site users. • Future site users. • Construction workers during redevelopment works. **Construction Materials** • Buried concrete in ground (foundations and building materials).

Table 12. Source, Pathway and Receptors		
Potential Sources of Contamination	**Potential Transport Pathways and Pollutant Linkages**	**Potential Receptors**
		• Underground services.

6.3 Qualitative Risk Assessment

A qualitative risk assessment is undertaken of potential pollutant linkages following the guidance presented in **Appendix E**, and is based on consideration of both:

- The likelihood of an event (probability – considers both the presence of the hazard and receptor and the integrity of the pathway); and
- The severity of the potential consequence (considers both the potential severity of the hazard and the sensitivity of the receptor).

Potential risks related to these plausible linkages are based on redevelopment of the site with a proposed commercial end use assuming no mitigation is implemented. These are summarised in Table 13.

Table 13. Preliminary Environmental Risk Assessment					
Source	**Pathways to Receptor**	**Receptors**	**Associated Hazard [Potential severity]**	**Likelihood / Potential Mitigation**	**Potential Risk**
Made ground	Direct contact, ingestion or inhalation of soil bound contaminant.	Current site users.	Effect on human health [Minor]	Unlikely: Made ground is currently sealed beneath the hardcover of the development or landscaped areas.	Very low
		Future site users. Construction workers.		Low likelihood: Any made ground, if present, will either be removed from site or isolated beneath hard cover of the development. Any risk can be mitigated by appropriate site management.	Very low
	Direct contact	Buried concrete.	Degradation [Mild]	Low likelihood: Any potential risks can be mitigated by using appropriate construction materials.	Low
	Leaching into groundwater followed by lateral migration into surface water	Underlying Secondary Aquifer.	Pollution of controlled waters [Minor]	Low likelihood: Groundwater is considered medium vulnerability to site derived contamination. The site is not within a ground source protection zone.	Very low

7 CONCLUSIONS AND RECOMMENDATIONS

This Phase 1 Geo-Environmental Assessment has been performed for the proposed development described in Section 2.1. The proposed site plan is presented in **Appendix A**. For the purpose of this report, we have assumed that proposed levels will not be significantly different to those existing. If any of our assumptions are incorrect then the conclusions in this report may require reassessment.

Geotechnical Conclusions	The main issues considered in this report are based upon a review of environmental data, historical maps and geological data. This report provides a brief assessment of geo-environmental issues and implications associated with the proposed development: • Underlying ground conditions may comprise made ground, overlying bedrock comprising mudstone, siltstone, and sandstone at unknown depths. • Topography across the site is flat due to a cut into the slope atop which the building sits. Landscaped areas at the front, back and sides of the site slope from south to north. • Given the absence of superficial deposits, soakaways may be suitable for the disposal of surface water, providing permeable bedrock is present at shallow depth. • Based on observations on site, it is possible that the north side of the site when the car park currently lies is founded on fill material. • Based on available information, it is anticipated that bedrock could be present at shallow depth and provide sufficient bearing capacity to enable adoption of spread foundations (i.e strip, trench fill or pad).

	Alternative foundation solutions may be required where considerable depths of made ground are present, natural soils are found to be present and of inadequate strength, boulders or cobbles are present at the founding depth, or shallow groundwater is found to be problematic. At this stage, no site specific geotechnical ground investigation data is available and therefore it is only possible to estimate ground conditions. Foundation solutions will be dependent on a number of parameters including finished levels, loadings, bearing capacity of the natural strata, depth to bedrock, groundwater levels, proximity of trees, slope stability etc. • Before firm foundation, floor slab and pavement design recommendations can be provided an intrusive geotechnical investigation should be undertaken.
Coal Mining Risk Assessment	Based on a review of geological mapping and Coal Authority information, no risk to the proposed development has been identified associated with possible unrecorded shallow mine workings or recorded mine entries.
Environmental Conclusions	Based on a review of existing reports, desk study data and observations during the site inspection, the preliminary environmental risk assessment has identified: • No evidence of significant contamination from historical and current land use has been encountered at the site. However, given the industrial development, made ground is expected. • Some minor amounts of fly tipped waste were observed but this can be delt with as a housekeeping issue. • The site is within an area where radon protective measures are not required.
Contaminated Land Risk Assessment	Based on the information contained in this report, and with due regard to the commercial development, the site represents a low risk with respect to contaminated land liability issues.
Preliminary Remediation Recommendations	At this preliminary stage, and based upon research to date, we have assumed that remediation measures will not be required. If low concentrations of contamination are present, then this would be sealed beneath the hardcover of the development or clean cover system in landscaped areas.
Unexpected Findings Protocol	If unexpected potentially contaminated materials (such as those with an unusual colour, odour or containing drums, chemicals or asbestos, etc) are encountered at any time during redevelopment then work should stop and a suitably qualified environmental consultant should be contacted to advise on the appropriate course of action.
Other Considerations	Where it is necessary to remove material from site, this should be assessed for waste disposal, treatment or recycling requirements. Alternatively, subject to further evaluation, natural soils could be suitable for reuse on other developments where an approved materials management plan is in place.
Recommendations for further work	To facilitate the proposed development a geo-environmental investigation should be undertaken to assess existing conditions and provide information for substructure design. As an overview, this should include: • Investigations to confirm underlying ground conditions including the depth and composition of made ground and natural ground to determine the depth to suitable founding strata; • Geochemical testing of representative samples to confirm suitability of reusing material on site; • Geotechnical testing of representative samples, to evaluate the characteristics of the natural deposits; and • Documentation of findings in a report.

8 REGULATORY APPROVALS

The conclusions and recommendations presented in this report are considered reasonable based on the information that was available. However, these are not guaranteed to gain approval from regulatory authorities. Therefore, we recommend that copies of this report are passed to the appropriate regulator for review and comment before undertaking any additional work.

Appendix A
Drawings

Ashroyds Way

existing planting retained

bin store

bin store

existing planting retained

existing parking retained

existing parking retained

8 new storage units 138m² each

existing yard retained

18.000

existing b8 unit

existing parking retained

existing parking retained

existing planting retianed

existing planting retianed

0 5 10 15 20 25m

scale 1:500

N

issue:

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A : original issue
B: 14.10.21: lg: dimension added and proposed building added
C: 30.09.22: lg: updated to suit new unit design and positioning

campbelldriverpartnership architects

client: group first

project: storage first barnsley

ashroyds way barnsley

sheet: proposed site plan

job no:	dwg no:	
21.190	003	C

scale: 1:500 @ A3

date: 01.10.21

drawn: lg

capricorn park
blakewater road
blackburn bb1 5qr
t: 01254 297700
e: design@cdparchitects.co.uk

Appendix B
Environmental Data Report

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

UNIT 5C, ASHROYDS WAY, PLATTS COMMON, BARNSLEY, S74 9SB

Order Details

Date: 18/10/2022

Your ref: 22229-G-01

Our Ref: GS-9136457

Site Details

Location: 436603 401207

Area: 1.39 ha

Authority: Barnsley Metropolitan Borough Council



Summary of findings p. 2

OS MasterMap site plan p.13

Aerial image p. 8

groundsure.com/insightuserguide

Contact us with any questions at:
info@groundsure.com
08444 159 000

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**	4	0	29	19	-
17	**1.2**	**Historical tanks**	0	0	9	8	-
18	**1.3**	**Historical energy features**	0	0	1	8	-
18	1.4	Historical petrol stations	0	0	0	0	-
19	1.5	Historical garages	0	0	0	0	-
19	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
20	**2.1**	**Historical industrial land uses**	4	0	39	25	-
23	**2.2**	**Historical tanks**	0	0	10	12	-
24	**2.3**	**Historical energy features**	0	0	1	15	-
25	2.4	Historical petrol stations	0	0	0	0	-
25	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
26	3.1	Active or recent landfill	0	0	0	0	-
26	3.2	Historical landfill (BGS records)	0	0	0	0	-
27	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
27	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
27	3.5	Historical waste sites	0	0	0	0	-
27	3.6	Licensed waste sites	0	0	0	0	-
27	**3.7**	**Waste exemptions**	2	0	6	2	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
29	**4.1**	**Recent industrial land uses**	2	1	10	-	-
30	4.2	Current or recent petrol stations	0	0	0	0	-
31	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
31	4.5	Sites determined as Contaminated Land	0	0	0	0	-

31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
31	4.7	Regulated explosive sites	0	0	0	0	-
32	4.8	Hazardous substance storage/usage	0	0	0	0	-
32	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
32	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
32	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	2	3	-
33	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
33	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
34	4.15	Pollutant release to public sewer	0	0	0	0	-
34	4.16	List 1 Dangerous Substances	0	0	0	0	-
34	4.17	List 2 Dangerous Substances	0	0	0	0	-
34	**4.18**	**Pollution Incidents (EA/NRW)**	0	0	2	0	-
35	4.19	Pollution inventory substances	0	0	0	0	-
35	4.20	Pollution inventory waste transfers	0	0	0	0	-
35	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
36	5.1	Superficial aquifer	None (within 500m)				
37	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
38	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
39	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
39	5.5	Groundwater vulnerability- local information	None (within 0m)				
40	**5.6**	**Groundwater abstractions**	0	0	0	0	4
41	5.7	Surface water abstractions	0	0	0	0	0
42	5.8	Potable abstractions	0	0	0	0	0
42	5.9	Source Protection Zones	0	0	0	0	-
42	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
43	**6.1**	**Water Network (OS MasterMap)**	0	1	0	-	-

44	**6.2**	**Surface water features**	0	1	0	-	-
44	**6.3**	**WFD Surface water body catchments**	1	-	-	-	-
44	**6.4**	**WFD Surface water bodies**	0	0	0	-	-
45	**6.5**	**WFD Groundwater bodies**	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
46	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
46	7.2	Historical Flood Events	0	0	0	-	-
46	7.3	Flood Defences	0	0	0	-	-
47	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
47	7.5	Flood Storage Areas	0	0	0	-	-
48	7.6	Flood Zone 2	None (within 50m)				
48	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
49	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
50	**9.1**	**Groundwater flooding**	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
51	**10.1**	**Sites of Special Scientific Interest (SSSI)**	0	0	0	0	2
52	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
52	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
52	10.4	Special Protection Areas (SPA)	0	0	0	0	0
52	10.5	National Nature Reserves (NNR)	0	0	0	0	0
53	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
53	**10.7**	**Designated Ancient Woodland**	0	0	0	0	13
54	10.8	Biosphere Reserves	0	0	0	0	0
54	10.9	Forest Parks	0	0	0	0	0
54	10.10	Marine Conservation Zones	0	0	0	0	0
54	**10.11**	**Green Belt**	0	0	0	1	2
55	10.12	Proposed Ramsar sites	0	0	0	0	0

55	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
55	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
55	10.15	Nitrate Sensitive Areas	0	0	0	0	0
56	**10.16**	**Nitrate Vulnerable Zones**	1	0	0	0	0
57	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
58	**10.18**	**SSSI Units**	0	0	0	0	2
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
60	11.1	World Heritage Sites	0	0	0	-	-
60	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
60	11.3	National Parks	0	0	0	-	-
60	11.4	Listed Buildings	0	0	0	-	-
61	11.5	Conservation Areas	0	0	0	-	-
61	11.6	Scheduled Ancient Monuments	0	0	0	-	-
61	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
62	**12.1**	**Agricultural Land Classification**	Grade 3 (within 250m)				
63	12.2	Open Access Land	0	0	0	-	-
63	12.3	Tree Felling Licences	0	0	0	-	-
63	12.4	Environmental Stewardship Schemes	0	0	0	-	-
64	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
65	**13.1**	**Priority Habitat Inventory**	0	0	1	-	-
66	13.2	Habitat Networks	0	0	0	-	-
66	13.3	Open Mosaic Habitat	0	0	0	-	-
66	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
67	**14.1**	**10k Availability**	Identified (within 500m)				
68	**14.2**	**Artificial and made ground (10k)**	0	0	1	4	-
70	14.3	Superficial geology (10k)	0	0	0	0	-

70	14.4	Landslip (10k)	0	0	0	0	-
71	14.5	Bedrock geology (10k)	1	1	7	11	-
73	14.6	Bedrock faults and other linear features (10k)	0	0	6	4	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
74	15.1	50k Availability	Identified (within 500m)				
75	15.2	Artificial and made ground (50k)	0	0	1	3	-
76	15.3	Artificial ground permeability (50k)	0	0	-	-	-
77	15.4	Superficial geology (50k)	0	0	0	0	-
77	15.5	Superficial permeability (50k)	None (within 50m)				
77	15.6	Landslip (50k)	0	0	0	0	-
77	15.7	Landslip permeability (50k)	None (within 50m)				
78	15.8	Bedrock geology (50k)	1	1	7	11	-
80	15.9	Bedrock permeability (50k)	Identified (within 50m)				
80	15.10	Bedrock faults and other linear features (50k)	0	0	4	5	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
81	16.1	BGS Boreholes	0	0	11	-	-
Page	Section	Natural ground subsidence					
83	17.1	Shrink swell clays	Very low (within 50m)				
84	17.2	Running sands	Negligible (within 50m)				
85	17.3	Compressible deposits	Negligible (within 50m)				
86	17.4	Collapsible deposits	Very low (within 50m)				
87	17.5	Landslides	Very low (within 50m)				
88	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
89	18.1	Natural cavities	0	0	0	0	-
90	18.2	BritPits	0	0	0	3	-
90	18.3	Surface ground workings	3	0	35	-	-
92	18.4	Underground workings	3	0	1	2	5
93	18.5	Historical Mineral Planning Areas	0	0	0	0	-

93	**18.6**	**Non-coal mining**	1	0	0	1	4
94	18.7	Mining cavities	0	0	0	0	0
94	18.8	JPB mining areas	None (within 0m)				
94	**18.9**	**Coal mining**	Identified (within 0m)				
95	18.10	Brine areas	None (within 0m)				
95	18.11	Gypsum areas	None (within 0m)				
95	18.12	Tin mining	None (within 0m)				
95	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
96	**19.1**	**Radon**	Between 1% and 3% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
98	**20.1**	**BGS Estimated Background Soil Chemistry**	4	1	-	-	-
98	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
99	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
100	21.1	Underground railways (London)	0	0	0	-	-
100	21.2	Underground railways (Non-London)	0	0	0	-	-
101	21.3	Railway tunnels	0	0	0	-	-
101	**21.4**	**Historical railway and tunnel features**	0	0	17	-	-
102	21.5	Royal Mail tunnels	0	0	0	-	-
102	21.6	Historical railways	0	0	0	-	-
102	21.7	Railways	0	0	0	-	-
102	21.8	Crossrail 1	0	0	0	0	-
102	21.9	Crossrail 2	0	0	0	0	-
103	**21.10**	**HS2**	0	0	0	1	-

Recent aerial photograph



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Capture Date: 19/04/2021

Site Area: 1.39ha

Recent site history - 2018 aerial photograph



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Capture Date: 01/07/2018

Site Area: 1.39ha

Recent site history - 2012 aerial photograph



Capture Date: 28/05/2012

Site Area: 1.39ha

Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 1.39ha

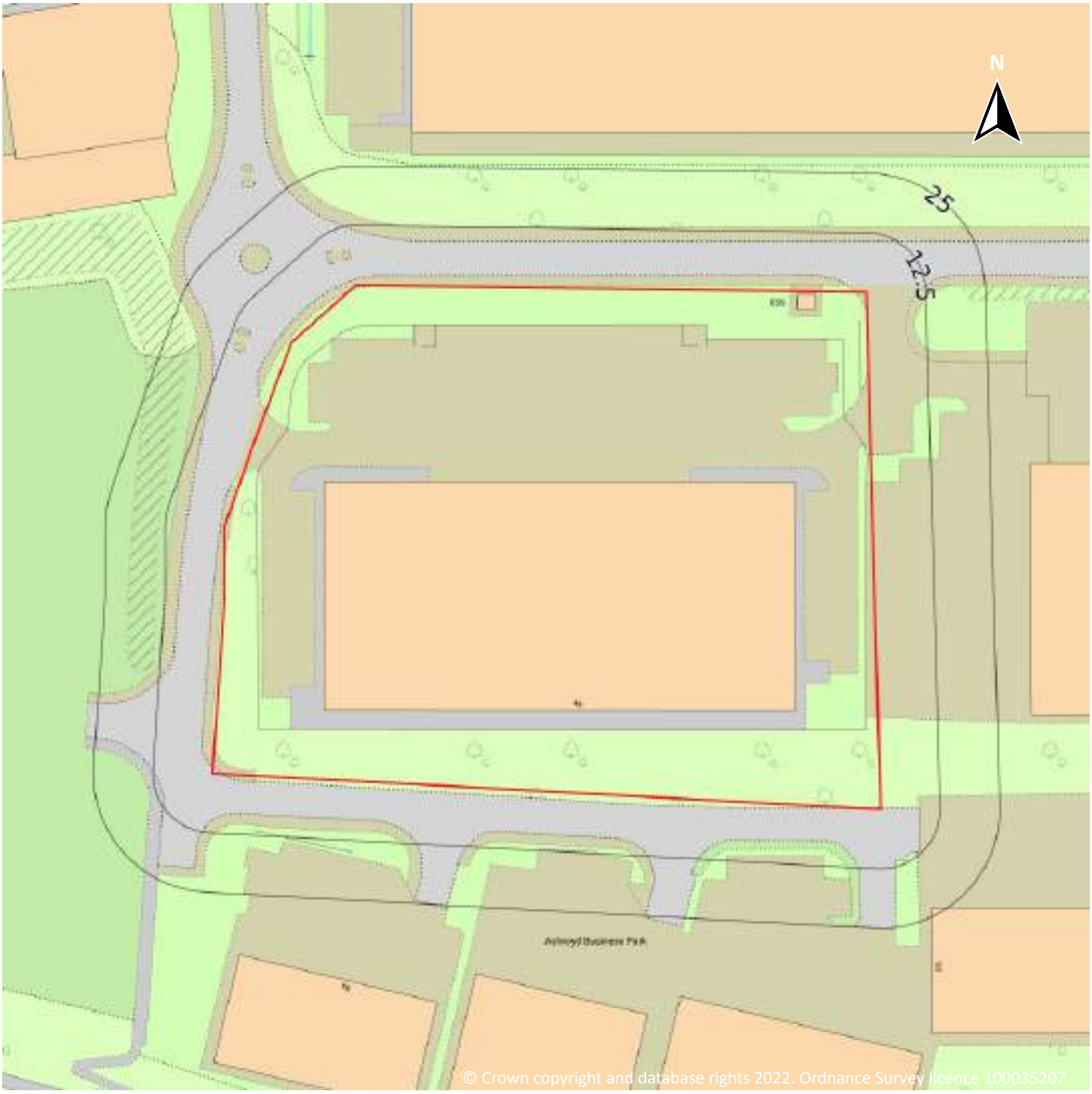
Recent site history - 1999 aerial photograph



Capture Date: 10/07/1999

Site Area: 1.39ha

OS MasterMap site plan



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Site Area: 1.39ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	52

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	**On site**	**Industrial Estate**	**1977 - 1987**	**1496207**

ID	Location	Land use	Dates present	Group ID
B	**On site**	**Colliery**	**1903**	**1513399**
B	**On site**	**Colliery**	**1938**	**1536620**
B	**On site**	**Collieries**	**1891**	**1538337**
C	102m NE	Cuttings	1966	1485554
C	102m NE	Cuttings	1903	1533955
B	102m NE	Railway Sidings	1891	1554074
C	102m NE	Cuttings	1891	1462238
C	103m NE	Cuttings	1948	1520317
D	105m N	Refuse Heap	1938 - 1951	1548395
D	105m N	Collieries	1951	1556952
E	117m N	Cuttings	1891	1532116
E	118m N	Cuttings	1948	1541559
B	120m NE	Collieries	1948	1548662
F	125m NE	Refuse Heap	1891 - 1903	1465631
F	126m N	Refuse Heap	1966	1477082
E	128m N	Cuttings	1966	1538753
G	142m NE	Railway Sidings	1903	1549204
C	145m E	Unspecified Heap	1966	1417658
G	145m SE	Railway Sidings	1938	1557231
G	148m SE	Railway Sidings	1948	1550339
H	148m SE	Cuttings	1948	1410378
H	151m SE	Unspecified Pit	1951	1455345
A	163m E	Unspecified Ground Workings	1951	1414434
A	170m E	Cooling Pond	1951	1424993
I	182m E	Unspecified Tanks	1938	1426418
J	201m E	Refuse Heap	1891	1464549
I	204m E	Unspecified Tanks	1948 - 1951	1546302
2	219m N	Unspecified Heap	1966	1417656

ID	Location	Land use	Dates present	Group ID
K	240m S	Cemetery	1951 - 1987	1532644
K	244m S	Cemetery	1948	1503621
K	246m S	Cemetery	1938	1464099
J	247m E	Unspecified Heap	1951 - 1966	1463744
L	253m SW	Unspecified Heap	1966	1417655
J	272m E	Refuse Heap	1948	1556889
J	281m E	Refuse Heap	1903	1516032
J	281m E	Refuse Heap	1938	1518685
N	315m SW	Cemetery	1951	1457480
N	323m SW	Grave Yard	1948	1510691
N	324m SW	Grave Yard	1903	1470772
N	324m SW	Grave Yard	1938	1499795
N	324m SW	Grave Yard	1891	1551231
N	324m SW	Grave Yard	1977 - 1987	1531303
O	362m NE	Unspecified Mine	1966	1455619
O	362m NE	Unspecified Works	1977 - 1987	1554289
P	418m W	Refuse Heap	1977	1483645
P	423m W	Unspecified Disused Tip	1987	1420289
5	445m E	Filter Beds	1948	1525414
O	447m NE	Brick Yard	1903	1442461
O	475m NE	Unspecified Shaft	1977	1425336
6	486m NE	Unspecified Heap	1891	1417657
7	495m E	Ambulance Depot	1977 - 1987	1542113

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**17**

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

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

ID	Location	Land use	Dates present	Group ID
A	169m E	Tanks	1931	232762
I	183m E	Tanks	1931	232758
A	191m E	Tanks	1931	232759
A	192m E	Tanks	1931	232761
I	195m E	Tanks	1931	232757
A	203m E	Tanks	1931	232760
I	203m E	Old Tank	1955 - 1960	249559
I	204m E	Tanks	1931	232756
I	207m E	Old Tank	-	222504
3	256m E	Unspecified Tank	1931	229013
L	267m S	Unspecified Tank	1975 - 1993	249158
O	403m NE	Unspecified Tank	1893	229014
O	410m NE	Unspecified Tank	1893	229012
O	412m NE	Unspecified Tank	1893 - 1905	244704
O	452m NE	Unspecified Tank	1973 - 1993	240124
Q	460m E	Unspecified Tank	1973 - 1993	235704
O	477m NE	Unspecified Tank	1955	229009

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	9

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

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

ID	Location	Land use	Dates present	Group ID
1	189m W	Electricity Substation	1999	131150
M	278m E	Electricity Substation	1979 - 1993	142768
M	282m E	Electricity Substation	1972	137129
4	374m S	Electricity Substation	1955 - 1993	141701
O	435m NE	Electricity Substation	1999	131155
Q	442m E	Electricity Substation	1955 - 1973	137493
Q	443m E	Electricity Substation	1993	139035
O	445m NE	Electricity Substation	1970	131154
O	445m NE	Electricity Substation	1973	131153

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	68

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 20**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Industrial Estate**	**1977**	**1496207**
B	**On site**	**Colliery**	**1938**	**1536620**
B	**On site**	**Colliery**	**1903**	**1513399**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Collieries**	**1891**	**1538337**
C	102m NE	Cuttings	1966	1485554
C	102m NE	Cuttings	1903	1533955
B	102m NE	Railway Sidings	1891	1554074
C	102m NE	Cuttings	1891	1462238
C	103m NE	Cuttings	1948	1520317
D	105m N	Collieries	1951	1556952
D	105m N	Refuse Heap	1951	1548395
D	115m NE	Refuse Heap	1938	1548395
E	117m N	Cuttings	1891	1532116
E	118m N	Cuttings	1948	1541559
B	120m NE	Collieries	1948	1548662
B	120m NE	Collieries	1948	1548662
D	120m NE	Refuse Heap	1948	1548395
D	120m NE	Refuse Heap	1948	1548395
1	125m NE	Refuse Heap	1891	1465631
D	126m N	Refuse Heap	1966	1477082
E	128m N	Cuttings	1966	1538753
D	130m NE	Refuse Heap	1903	1465631
B	142m NE	Railway Sidings	1903	1549204
B	145m SE	Railway Sidings	1938	1557231
C	145m E	Unspecified Heap	1966	1417658
B	148m SE	Railway Sidings	1948	1550339
F	148m SE	Cuttings	1948	1410378
F	151m SE	Unspecified Pit	1951	1455345
A	163m E	Unspecified Ground Workings	1951	1414434
B	167m NE	Industrial Estate	1987	1496207
A	170m E	Cooling Pond	1951	1424993

ID	Location	Land Use	Date	Group ID
A	182m E	Unspecified Tanks	1938	1426418
G	201m E	Refuse Heap	1891	1464549
A	204m E	Unspecified Tanks	1948	1546302
A	206m E	Unspecified Tanks	1951	1546302
3	219m N	Unspecified Heap	1966	1417656
H	240m S	Cemetery	1966	1532644
H	240m S	Cemetery	1977	1532644
H	240m S	Cemetery	1987	1532644
H	240m S	Cemetery	1951	1532644
H	244m S	Cemetery	1948	1503621
H	246m S	Cemetery	1938	1464099
G	247m E	Unspecified Heap	1966	1463744
I	253m SW	Unspecified Heap	1966	1417655
G	272m E	Refuse Heap	1948	1556889
G	272m E	Refuse Heap	1948	1556889
G	281m E	Refuse Heap	1938	1518685
G	281m E	Refuse Heap	1903	1516032
G	289m E	Unspecified Heap	1951	1463744
K	315m SW	Cemetery	1951	1457480
K	323m SW	Grave Yard	1948	1510691
K	324m SW	Grave Yard	1938	1499795
K	324m SW	Grave Yard	1903	1470772
K	324m SW	Grave Yard	1891	1551231
K	324m SW	Grave Yard	1977	1531303
K	324m SW	Grave Yard	1987	1531303
L	362m NE	Unspecified Mine	1966	1455619
L	362m NE	Unspecified Works	1977	1554289
L	404m E	Unspecified Works	1987	1554289

ID	Location	Land Use	Date	Group ID
N	418m W	Refuse Heap	1977	1483645
N	423m W	Unspecified Disused Tip	1987	1420289
P	445m E	Filter Beds	1948	1525414
P	445m E	Filter Beds	1948	1525414
L	447m NE	Brick Yard	1903	1442461
L	475m NE	Unspecified Shaft	1977	1425336
5	486m NE	Unspecified Heap	1891	1417657
Q	495m E	Ambulance Depot	1977	1542113
Q	495m E	Ambulance Depot	1987	1542113

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**22**

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 20**

ID	Location	Land Use	Date	Group ID
A	169m E	Tanks	1931	232762
A	183m E	Tanks	1931	232758
A	191m E	Tanks	1931	232759
A	192m E	Tanks	1931	232761
A	195m E	Tanks	1931	232757
A	203m E	Old Tank	1955	249559
A	203m E	Tanks	1931	232760
A	204m E	Old Tank	1960	249559
A	204m E	Tanks	1931	232756
A	207m E	Old Tank	-	222504
4	256m E	Unspecified Tank	1931	229013

ID	Location	Land Use	Date	Group ID
I	267m S	Unspecified Tank	1975	249158
I	268m S	Unspecified Tank	1993	249158
L	403m NE	Unspecified Tank	1893	229014
L	410m NE	Unspecified Tank	1893	229012
L	412m NE	Unspecified Tank	1893	244704
L	412m NE	Unspecified Tank	1905	244704
L	452m NE	Unspecified Tank	1973	240124
L	454m NE	Unspecified Tank	1993	240124
O	460m E	Unspecified Tank	1973	235704
O	461m E	Unspecified Tank	1993	235704
L	477m NE	Unspecified Tank	1955	229009

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**16**

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 20**

ID	Location	Land Use	Date	Group ID
2	189m W	Electricity Substation	1999	131150
J	278m E	Electricity Substation	1993	142768
J	279m E	Electricity Substation	1979	142768
J	282m E	Electricity Substation	1972	137129
M	374m S	Electricity Substation	1985	141701
M	375m S	Electricity Substation	1955	141701
M	375m S	Electricity Substation	1967	141701
M	375m S	Electricity Substation	1967	141701
M	375m S	Electricity Substation	1955	141701

ID	Location	Land Use	Date	Group ID
M	375m S	Electricity Substation	1993	141701
L	435m NE	Electricity Substation	1999	131155
O	442m E	Electricity Substation	1955	137493
O	442m E	Electricity Substation	1973	137493
O	443m E	Electricity Substation	1993	139035
L	445m NE	Electricity Substation	1970	131154
L	445m NE	Electricity Substation	1973	131153

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	0

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'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	10

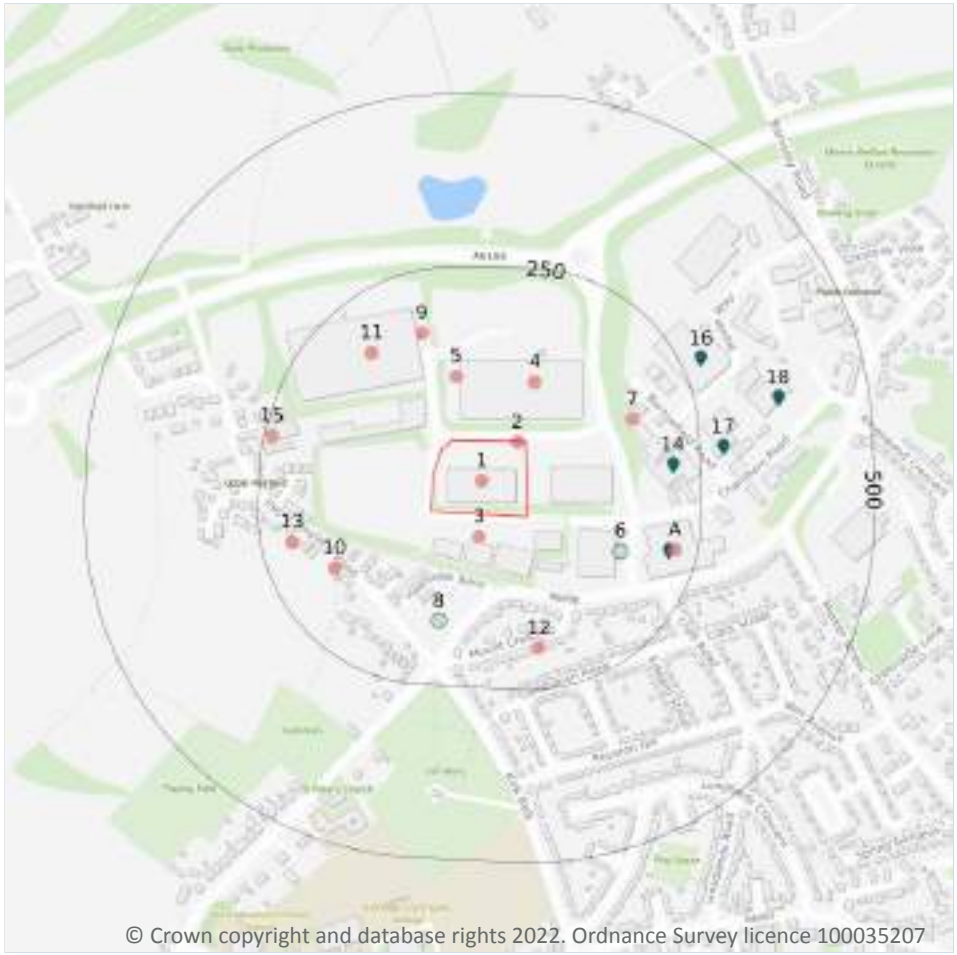
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 26**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	**On site**	**ASHROYD BUSINESS PARK, ASHROYDS WAY, HOYLAND, BARNSLEY, S74 9SB**	**WEX284185**	**Storing waste exemption**	**Not on a farm**	**Storage of waste in a secure place**
A	**On site**	**ASHROYD BUSINESS PARK, ASHROYDS WAY, HOYLAND, BARNSLEY, S74 9SB**	**WEX240933**	**Storing waste exemption**	**Not on a farm**	**Storage of waste in secure containers**
B	145m N	Ashroyd Business Park Ashroyds Way Barnsley Barnsley S74 9SB	EPR/HF0809CB/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
B	145m N	Ashroyd Business Park Ashroyds Way Barnsley Barnsley S74 9SB	EPR/HF0809CB/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
C	198m W	Sycamore Farm Upper Hoyland Road BARNSLEY South Yorkshire S74 9NL	EPR/LE5341EC/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
C	198m W	Sycamore Farm Upper Hoyland Road BARNSLEY South Yorkshire S74 9NL	EPR/LE5341EC/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
C	199m W	Sycamore Farm Upper Hoyland Road BARNSLEY South Yorkshire S74 9NL	EPR/CE5154ZL/A001	Using waste exemption	Non-Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
C	199m W	Sycamore Farm Upper Hoyland Road BARNSLEY South Yorkshire S74 9NL	EPR/CE5154ZL/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose
D	483m NE	Dale Products Barnsley Road BARNSLEY South Yorkshire S74 0QW	EPR/LH0517AJ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
D	483m NE	Dale Products Barnsley Road BARNSLEY South Yorkshire S74 0QW	EPR/LH0517AJ/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

Recent industrial land uses

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

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	13

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Store First**	**Ashroyds Way, Platts Common, Barnsley, South Yorkshire, S74 9SB**	**Container and Storage**	**Transport, Storage and Delivery**
2	**On site**	**Electricity Sub Station**	**South Yorkshire, S74**	**Electrical Features**	**Infrastructure and Facilities**

ID	Location	Company	Address	Activity	Category
3	33m S	Ashroyd Business Park	South Yorkshire, S74	Business Parks and Industrial Estates	Industrial Features
4	87m N	Universal Components	Ashroyds Way, Platts Common, Barnsley, South Yorkshire, S74 9SB	Vehicle Parts and Accessories	Motoring
5	93m N	Electricity Sub Station	South Yorkshire, S74	Electrical Features	Infrastructure and Facilities
7	157m E	Mast	South Yorkshire, S74	Telecommunications Features	Infrastructure and Facilities
9	160m N	Electricity Sub Station	South Yorkshire, S74	Electrical Features	Infrastructure and Facilities
10	162m SW	March Tank Construction	24, Upper Hoyland Road, Hoyland, Barnsley, South Yorkshire, S74 9NJ	General Construction Supplies	Industrial Products
11	171m NW	Store First	Ashroyd Business Park, Ashroyds Way, Barnsley, South Yorkshire, S74 9SB	Container and Storage	Transport, Storage and Delivery
12	190m S	Everyone's Secret	17, Mount Crescent, Hoyland, Barnsley, South Yorkshire, S74 0HG	Published Goods	Industrial Products
13	205m W	Electricity Sub Station	South Yorkshire, S74	Electrical Features	Infrastructure and Facilities
A	218m E	Metalliform	Chambers Road, Platts Common, Barnsley, South Yorkshire, S74 0EZ	Educational Equipment and Supplies	Industrial Products
15	239m W	R A & C A Cowgill & Son	Lower Sycamore Farm, Upper Hoyland Road, Hoyland, Barnsley, South Yorkshire, S74 9NL	Dairy Farming	Farming

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

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	5

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

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Address	Details	
A	208m E	Metaliform Holdings Ltd, Chambers Road, Hoyland, Barnsley, S74 0EZ	Process: Timber Manufacture; Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
14	210m E	Road Tankers Northern Ltd, Barrowfield Road, Platts Common Industial Estate, Barnsley, S74 9TH	Process: Respraying of Road Vehicles Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

ID	Location	Address	Details	
16	278m NE	Niftylift Ltd, Mason Way, Hoyland, Barnsley, S74 9TG	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
17	284m E	Northway Scania, Barrowfield Rd, Platts Common Ind Est, Hoyland, S74 9SF	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
18	368m E	Iris Mouldings Limited, Platts Common Ind Est, Barnsley, S74 9SA	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 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	2

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 29**

ID	Location	Details	
6	142m E	Incident Date: 23/06/2003 Incident Identification: 168173 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
8	157m S	Incident Date: 06/11/2001 Incident Identification: 41390 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

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



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	1

Aquifer status of groundwater held within bedrock geology.

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

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

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

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

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

Features are displayed on the Groundwater vulnerability map on **page 38**

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



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Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	4

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 40**

ID	Location	Details	
-	1280m NE	Status: Historical Licence No: 2/27/08/130 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-WOMBWELL Data Type: Point Name: H J BANKS & COMPANY LIMITED Easting: 437710 Northing: 401970	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/11/2002 Expiry Date: 31/12/2004 Issue No: 1 Version Start Date: 28/11/2002 Version End Date: -
-	1280m NE	Status: Historical Licence No: 2/27/08/130 Details: Lake & Pond Throughflow Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-WOMBWELL Data Type: Point Name: H J BANKS & COMPANY LIMITED Easting: 437710 Northing: 401970	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/11/2002 Expiry Date: 31/12/2004 Issue No: 1 Version Start Date: 28/11/2002 Version End Date: -
-	1280m NE	Status: Historical Licence No: 2/27/08/136 Details: Lake & Pond Throughflow Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-WOMBWELL Data Type: Point Name: H J BANKS (MINING) LTD Easting: 437710 Northing: 401970	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 25/05/2005 Expiry Date: 31/10/2005 Issue No: 1 Version Start Date: 25/05/2005 Version End Date: -
-	1280m NE	Status: Historical Licence No: 2/27/08/136 Details: Dust suppression Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-WOMBWELL Data Type: Point Name: H J BANKS (MINING) LTD Easting: 437710 Northing: 401970	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 25/05/2005 Expiry Date: 31/10/2005 Issue No: 1 Version Start Date: 25/05/2005 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**0**

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

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

5.8 Potable abstractions

Records within 2000m	0

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



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Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	**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 43**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	49m N	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 43**

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 43**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	**On site**	**River**	**Dove from Source to River Dearne**	**GB104027057510**	**Dearne**	**Don and Rother**

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 43**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1104m NW	River	Dove from Source to River Dearne	GB104027057510	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on **page 43**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	**On site**	**Don & Rother Millstone grit & Coal Measures**	**GB40402G992300**	**Poor**	**Poor**	**Good**	**2019**

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding

8.1 Surface water flooding

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

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

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

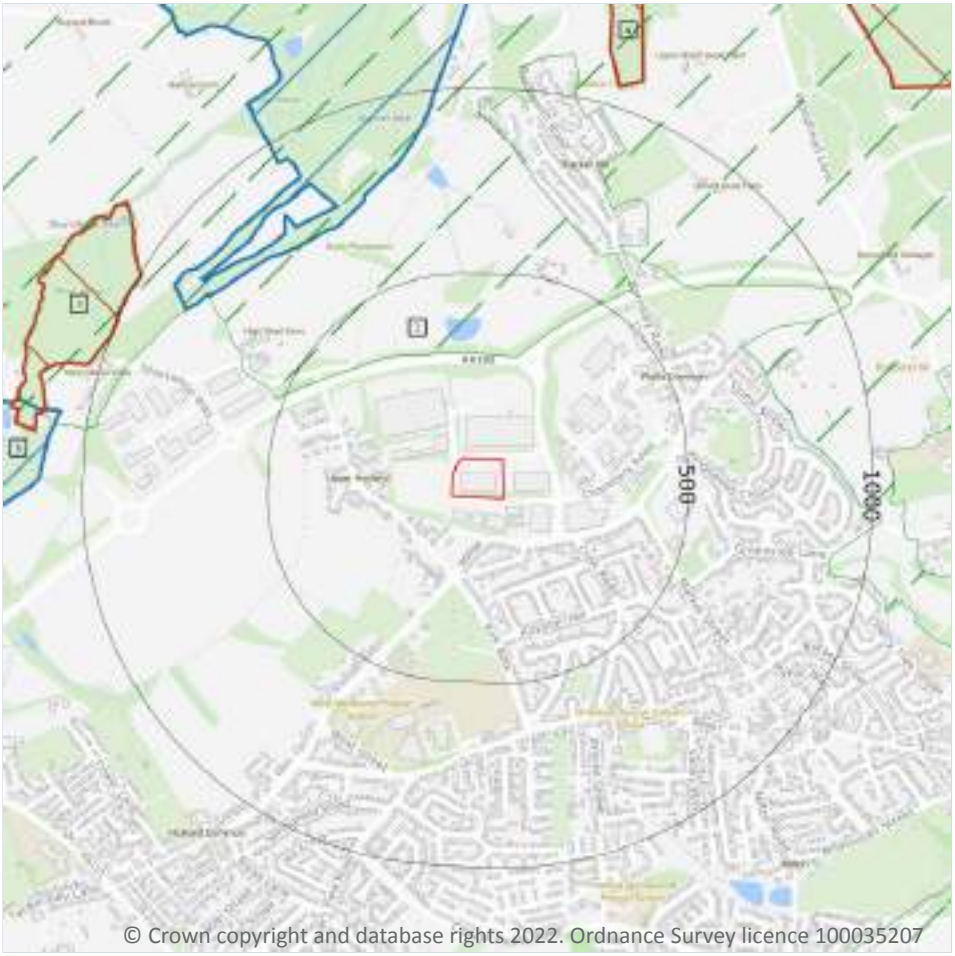
Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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

Features are displayed on the Groundwater flooding map on **page 50**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	2

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.

Features are displayed on the Environmental designations map on **page 51**

ID	Location	Name	Data source
2	711m NW	Dearne Valley Wetlands	Natural England

ID	Location	Name	Data source
5	1077m W	Dearne Valley Wetlands	Natural England

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	13

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 51**

ID	Location	Name	Woodland Type
3	995m NW	Short Wood	Ancient & Semi-Natural Woodland
4	1057m N	Unknown	Ancient Replanted Woodland
7	1460m NE	Wombwell Wood	Ancient Replanted Woodland
-	1572m S	Skiers Spring Wood	Ancient & Semi-Natural Woodland
-	1579m NE	Wombwell Wood	Ancient & Semi-Natural Woodland
-	1591m NE	Wombwell Wood	Ancient Replanted Woodland
-	1603m N	Wombwell Wood	Ancient & Semi-Natural Woodland
-	1887m E	Wombwell Wood	Ancient & Semi-Natural Woodland
-	1906m NE	Wombwell Wood	Ancient & Semi-Natural Woodland
-	1928m NE	Wombwell Wood	Ancient & Semi-Natural Woodland
-	1951m NE	Wombwell Wood	Ancient Replanted Woodland
-	1976m E	Wombwell Wood South	Ancient & Semi-Natural Woodland
-	1989m E	Wombwell Wood South	Ancient Replanted 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	3

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

Features are displayed on the Environmental designations map on **page 51**

ID	Location	Name	Local Authority name
1	277m N	South and West Yorkshire	Barnsley
-	1450m E	South and West Yorkshire	Barnsley
-	1771m S	South and West Yorkshire	Rotherham

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

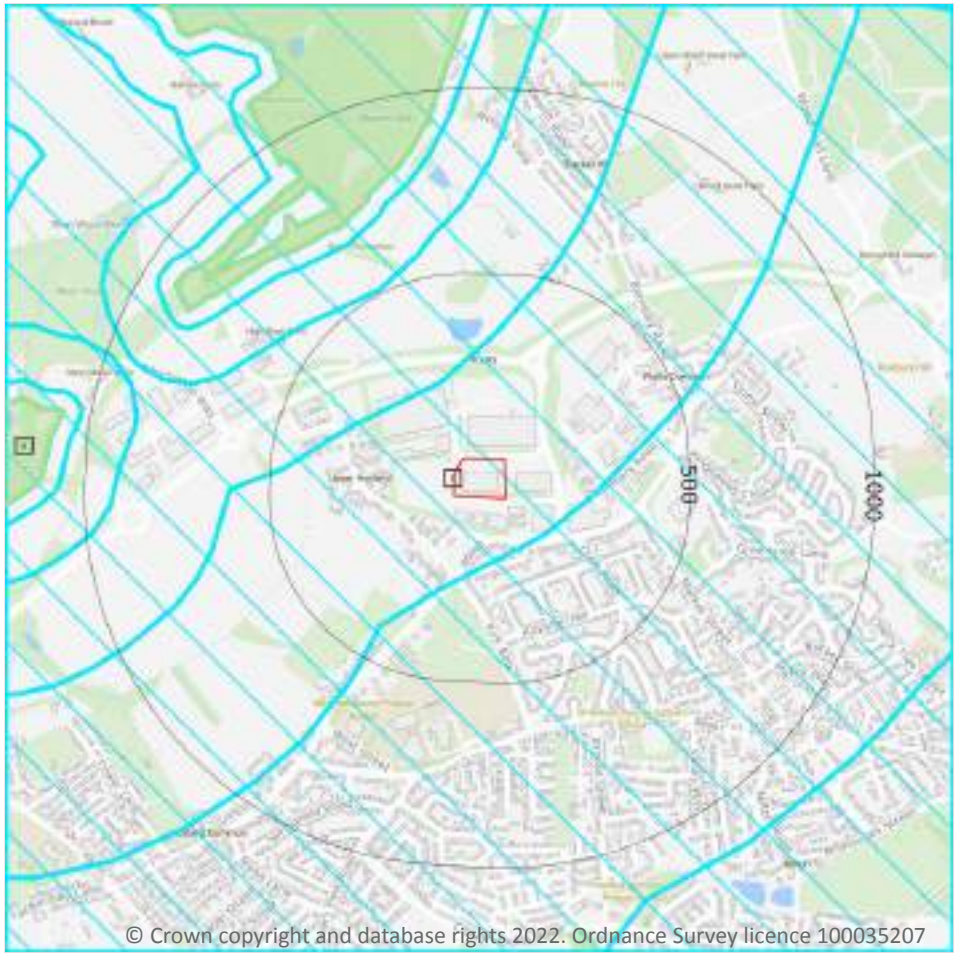
Records within 2000m	1

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
On site	**River Dearne NVZ**	**Surface Water**	**278**	**Existing**

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

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

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Wind and Solar - Wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 2m³/day to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	2

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.

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

ID: 5
Location: 711m NW
SSSI name: Dearne Valley Wetlands
Unit name: Barrow Colliery Site
Broad habitat:
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Willow Tit, Poecile montanus	Favourable	01/03/2021
Assemblages of breeding birds - Scrub	Favourable	01/03/2021

ID: B
Location: 1077m W
SSSI name: Dearne Valley Wetlands
Unit name: Barrow Colliery Site
Broad habitat:
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Willow Tit, Poecile montanus	Favourable	01/03/2021
Assemblages of breeding birds - Scrub	Favourable	01/03/2021

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	0

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.

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

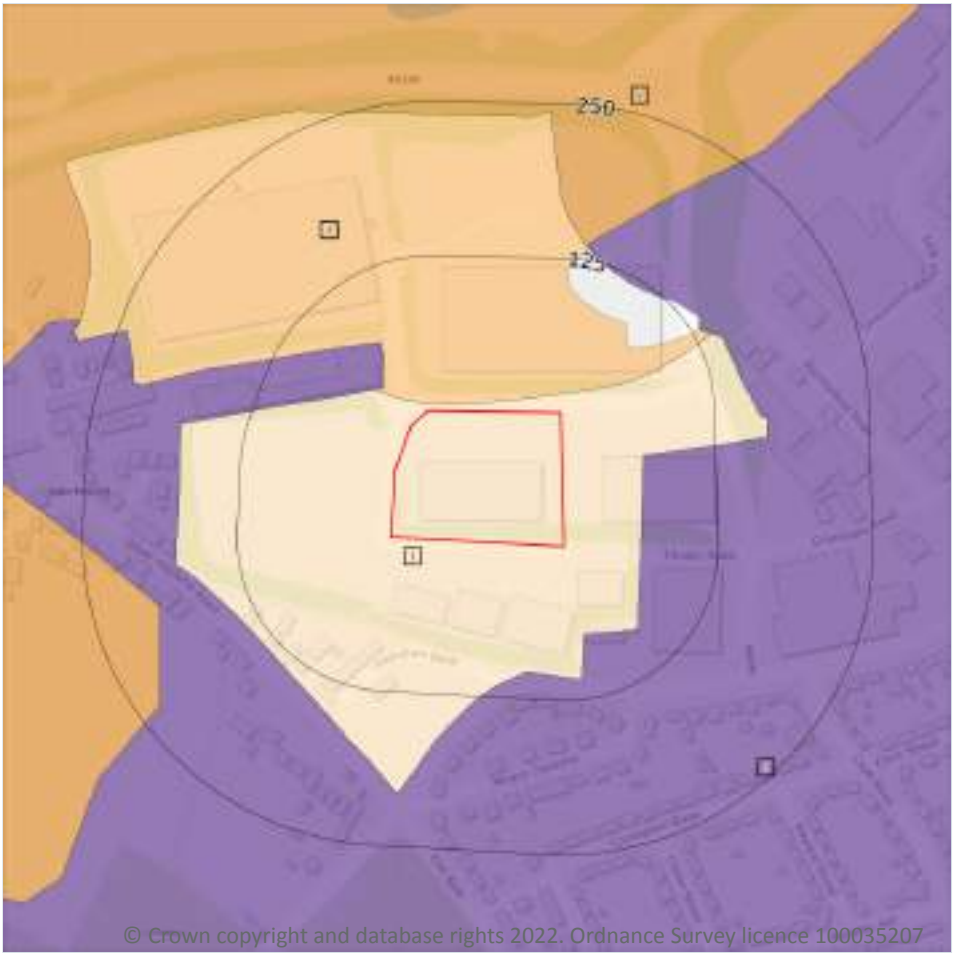
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	4

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

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

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

ID	Location	Classification	Description
2	5m N	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
3	38m NW	Urban	-
5	138m N	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

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

13.1 Priority Habitat Inventory

Records within 250m	1

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 65**

ID	Location	Main Habitat	Other habitats
1	202m W	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

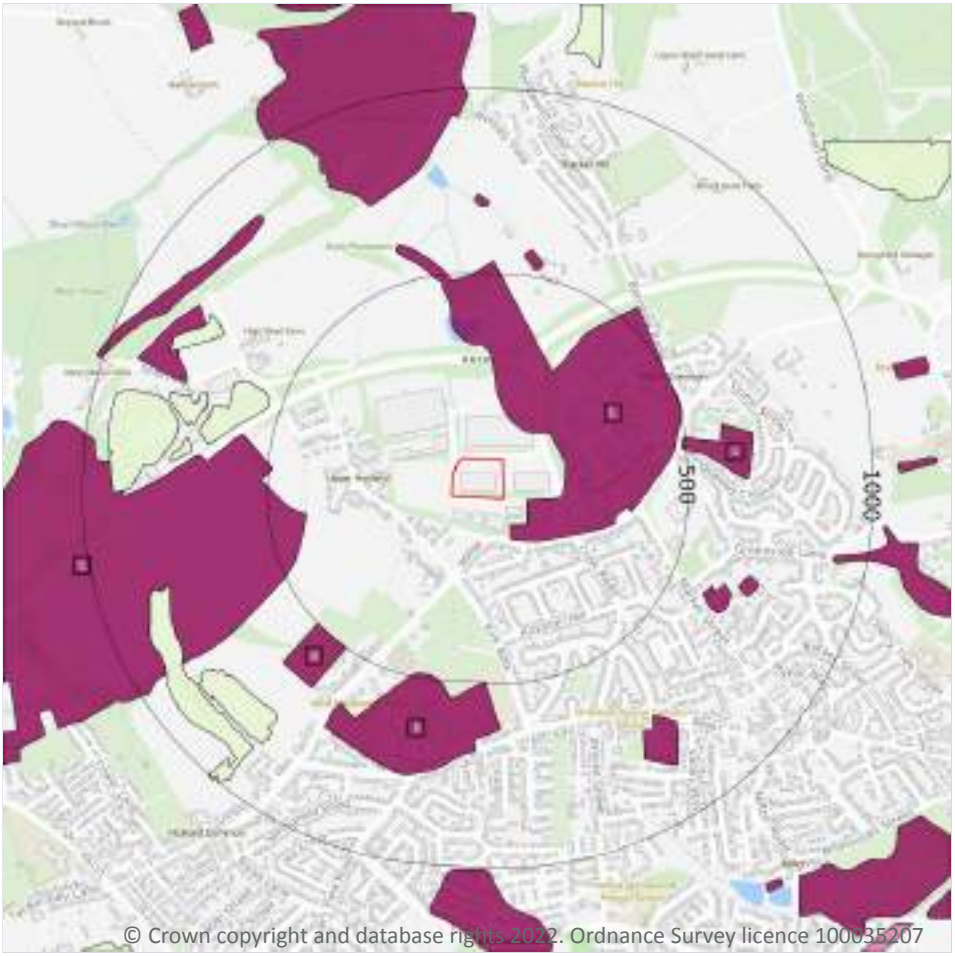
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 67**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE30SE**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m	5

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 68**

ID	Location	LEX Code	Description	Rock description
1	65m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	395m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	487m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	488m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	499m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

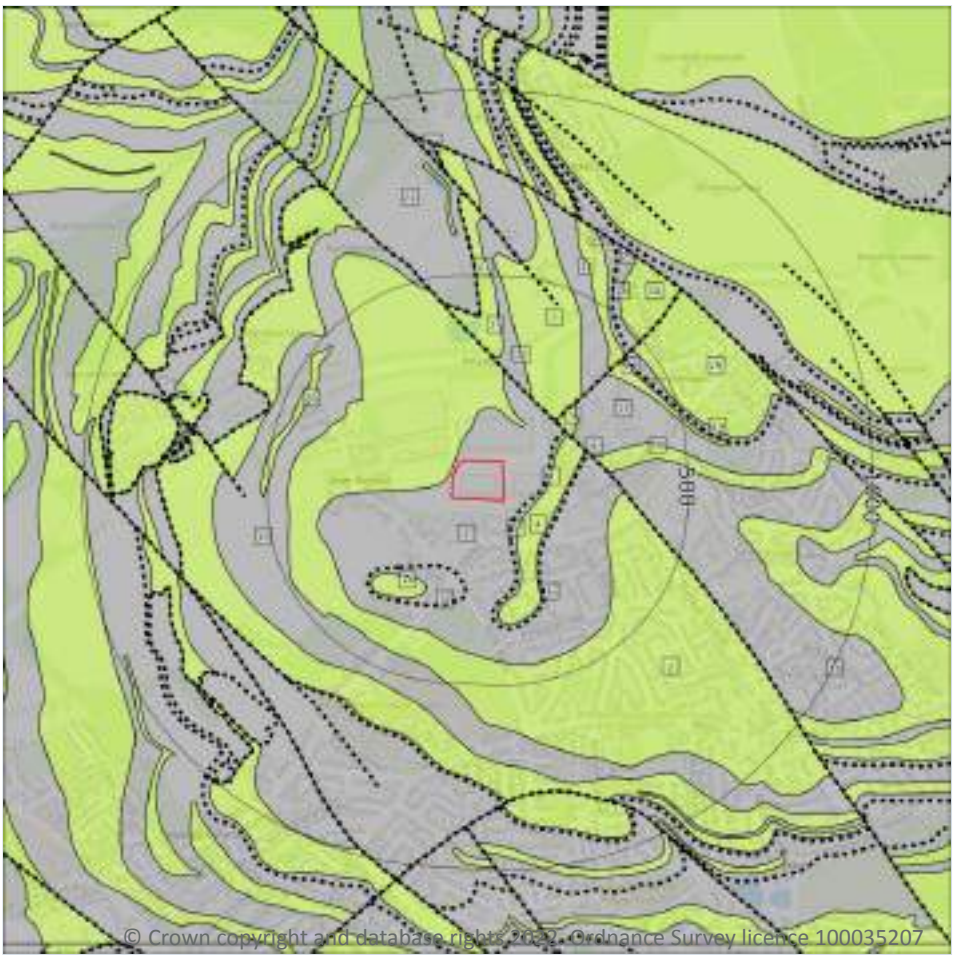
14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



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	20

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

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

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PMCM-MDSS**	**Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Bolsovian Sub-age - Duckmantian Sub-age**
2	9m W	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
4	71m SE	ABR-SDST	Abdy Rock - Sandstone	Duckmantian Sub-age

ID	Location	LEX Code	Description	Rock age
7	177m NE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
9	179m NE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
12	188m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
13	201m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
14	238m S	ABR-SDST	Abdy Rock - Sandstone	Duckmantian Sub-age
15	245m E	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
16	277m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
17	281m N	KNR-SDST	Kent's Rock - Sandstone	Duckmantian Sub-age
18	286m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
19	312m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
20	370m NE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
21	382m NE	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
22	389m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
25	433m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
26	443m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
29	462m NE	ABR-SDST	Abdy Rock - Sandstone	Duckmantian Sub-age
30	489m NE	ABR-SDST	Abdy Rock - Sandstone	Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**10**

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

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

ID	Location	Category	Description
3	51m SE	ROCK	Coal seam, inferred
5	75m S	ROCK	Coal seam, observed
6	112m S	ROCK	Coal seam, inferred
8	177m NE	FAULT	Normal fault, inferred
10	179m NE	FAULT	Normal fault, inferred
11	187m S	ROCK	Coal seam, inferred
23	389m N	ROCK	Coal seam, inferred coincident with bedrock geology boundary
24	431m NE	ROCK	Coal seam, inferred
27	448m N	FAULT	Normal fault, inferred
28	457m 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	1

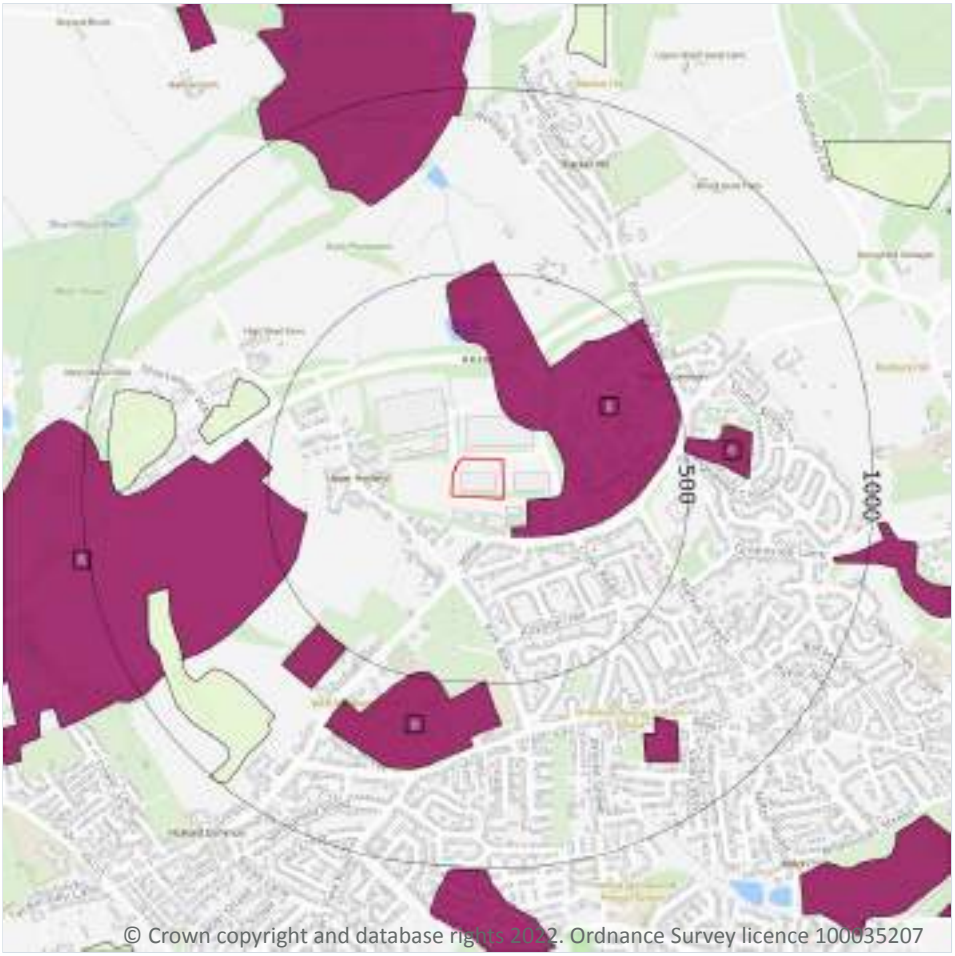
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**Full**	**EW087_barnsley_v4**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	4

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

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

ID	Location	LEX Code	Description	Rock description
1	66m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	394m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	482m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	494m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

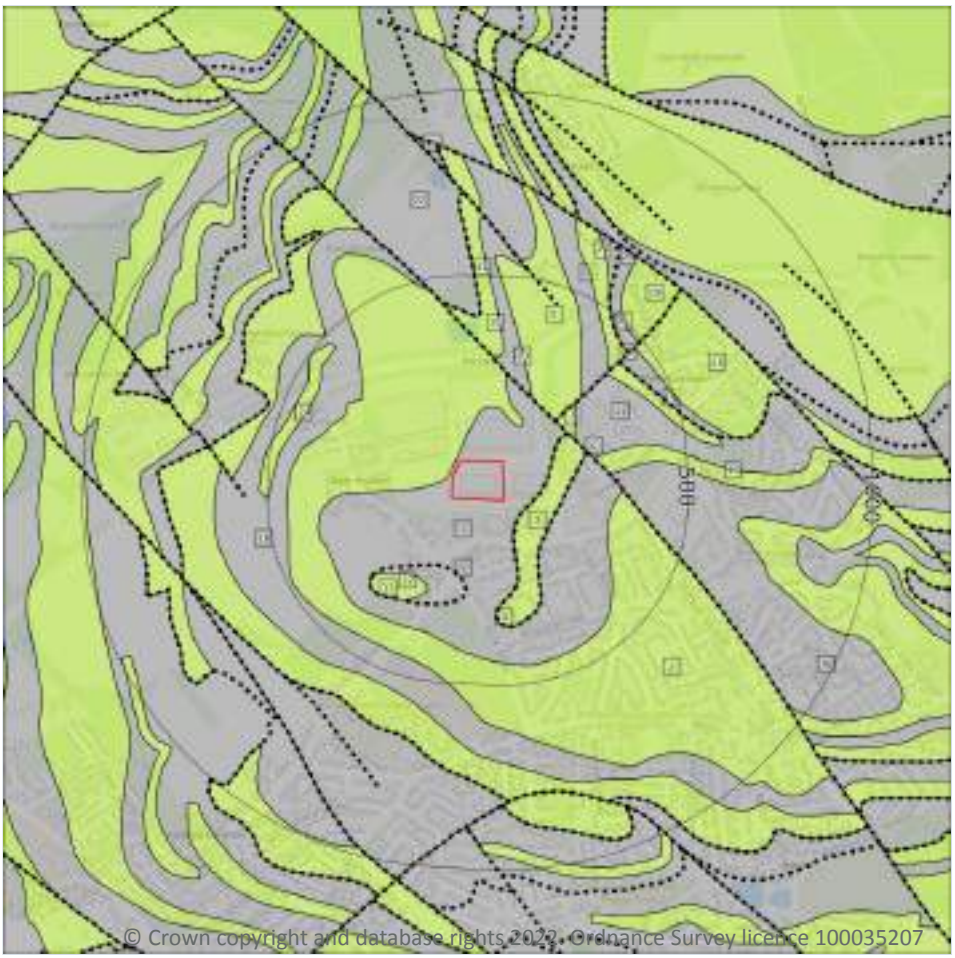
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	20

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

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

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PMCM-MDSS**	**PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE**	**WESTPHALIAN**
2	10m NW	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
3	59m SE	ABR-SDST	ABDY ROCK - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
5	177m NE	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
7	179m NE	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
10	187m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	203m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	232m SW	ABR-SDST	ABDY ROCK - SANDSTONE	WESTPHALIAN
13	248m E	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
14	274m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	282m N	KNR-SDST	KENT'S ROCK - SANDSTONE	WESTPHALIAN
16	291m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	314m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	367m NE	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
20	378m NE	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
22	391m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
24	428m NW	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
26	450m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
28	470m NE	ABR-SDST	ABDY ROCK - SANDSTONE	WESTPHALIAN
29	489m NE	ABR-SDST	ABDY ROCK - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Moderate**	**Low**
9m SE	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	9

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

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

ID	Location	Category	Description
4	59m SE	ROCK	Coal seam, inferred
6	177m NE	FAULT	Fault, inferred
8	179m NE	FAULT	Fault, inferred
9	185m S	ROCK	Coal seam, inferred
17	301m SW	ROCK	Coal seam, inferred
21	391m N	ROCK	Coal seam, inferred
23	414m NE	ROCK	Coal seam, inferred
25	447m N	FAULT	Fault, inferred
27	450m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	11

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

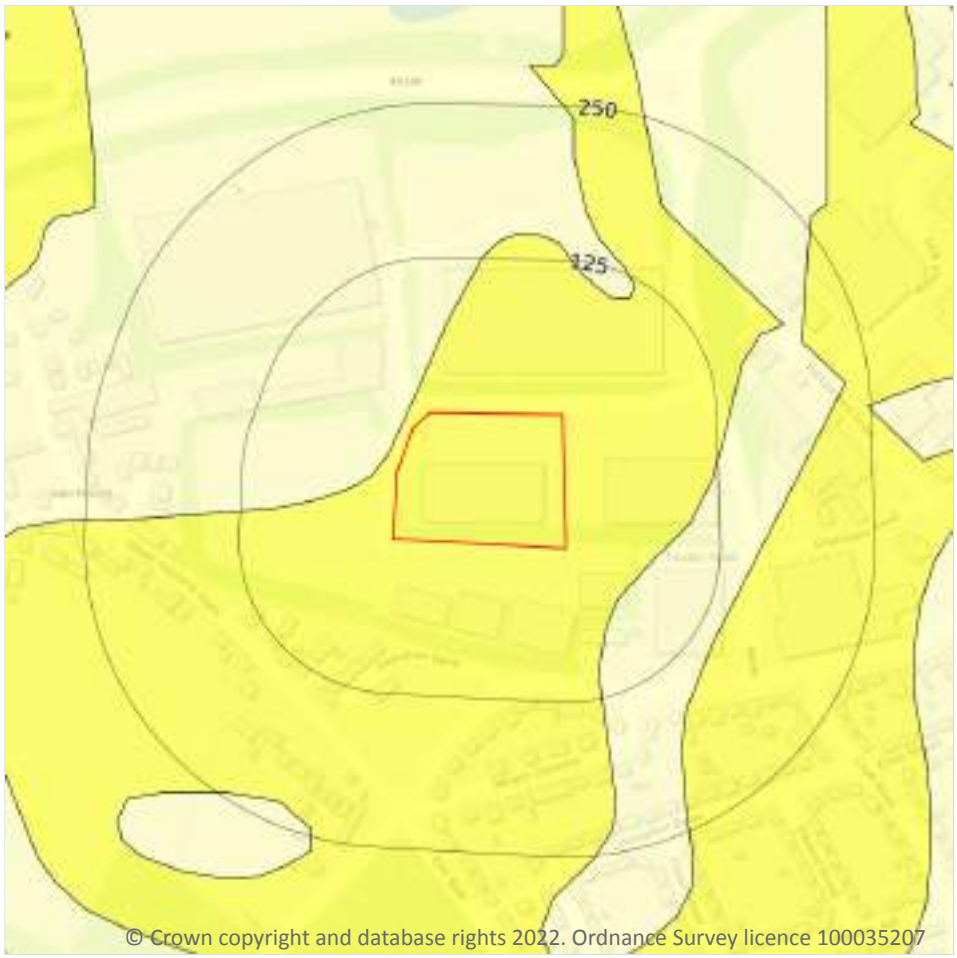
Features are displayed on the Boreholes map on **page 81**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	131m SW	436400 401100	DEARNE VALLEY HIGHWAY BH1	6.71	N	84563
2	186m NE	436770 401410	AMBER DOORS LTD HOYLAND BARNSLEY DWS13	-	Y	N/A
3	200m E	436810 401350	AMBER DOORS LTD HOYLAND BARNSLEY DWS14	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	220m NE	436790 401440	AMBER DOORS LTD HOYLAND BARNSLEY DWS4	-	Y	N/A
A	226m NE	436810 401420	AMBER DOORS LTD HOYLAND BARNSLEY DWS3	-	Y	N/A
B	231m NE	436830 401390	AMBER DOORS LTD HOYLAND BARNSLEY DWS2	-	Y	N/A
A	233m NE	436790 401460	AMBER DOORS LTD HOYLAND BARNSLEY DWS10	-	Y	N/A
B	234m E	436840 401370	AMBER DOORS LTD HOYLAND BARNSLEY DWS1	-	Y	N/A
A	236m NE	436810 401440	AMBER DOORS LTD HOYLAND BARNSLEY DWS5	-	Y	N/A
4	238m E	436850 401340	AMBER DOORS LTD HOYLAND BARNSLEY 6	-	Y	N/A
5	245m E	436860 401300	AMBER DOORS LTD HOYLAND BARNSLEY 5	-	Y	N/A

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	2

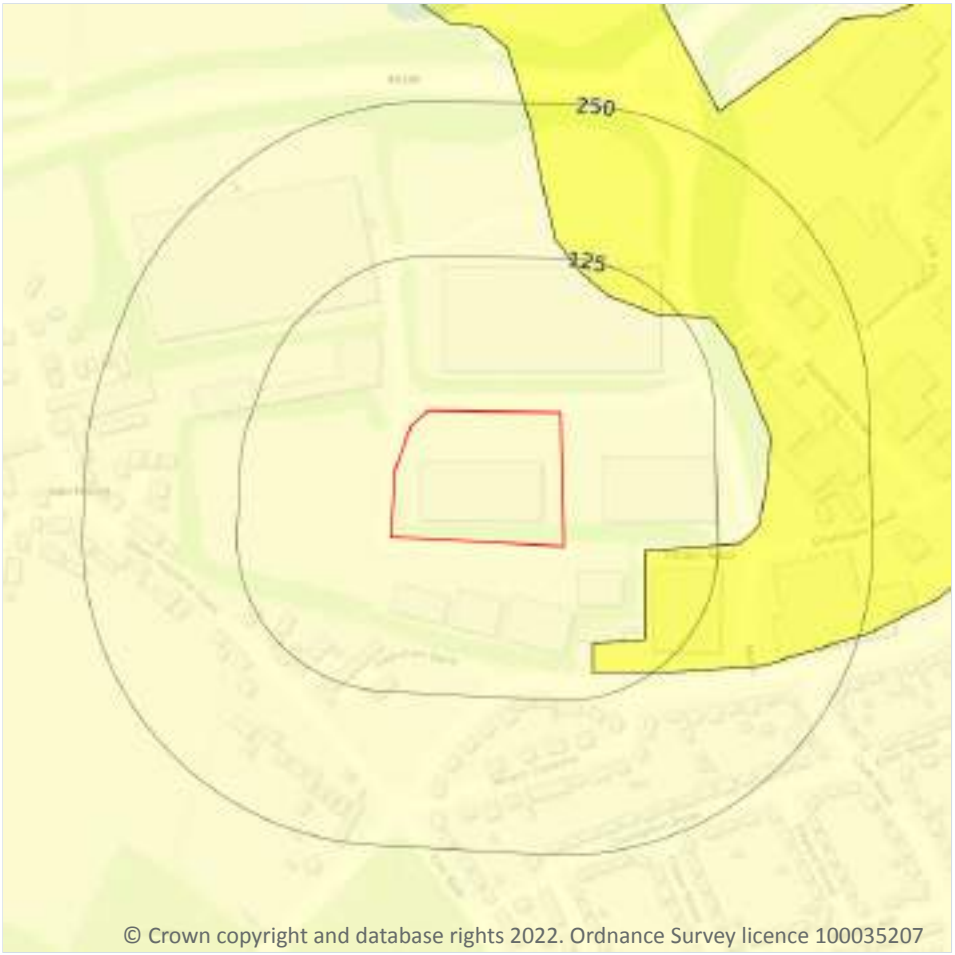
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 83**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**
10m NW	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	1

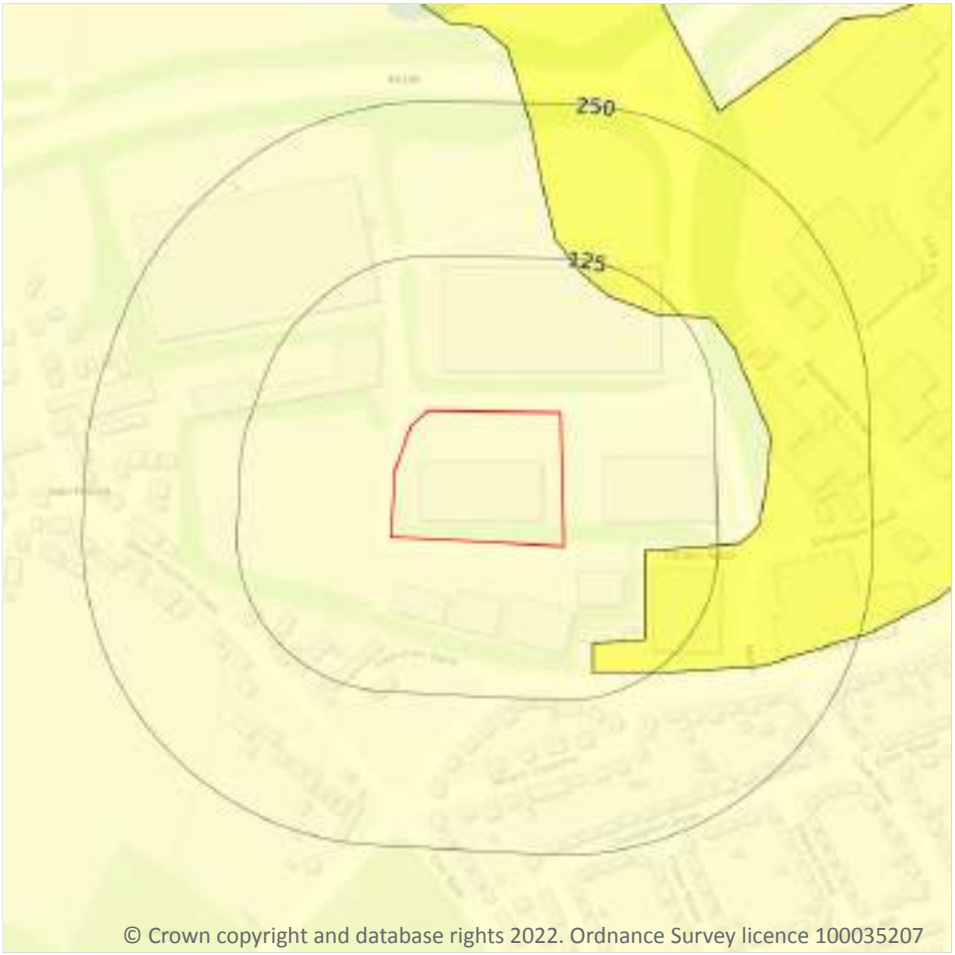
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 84**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

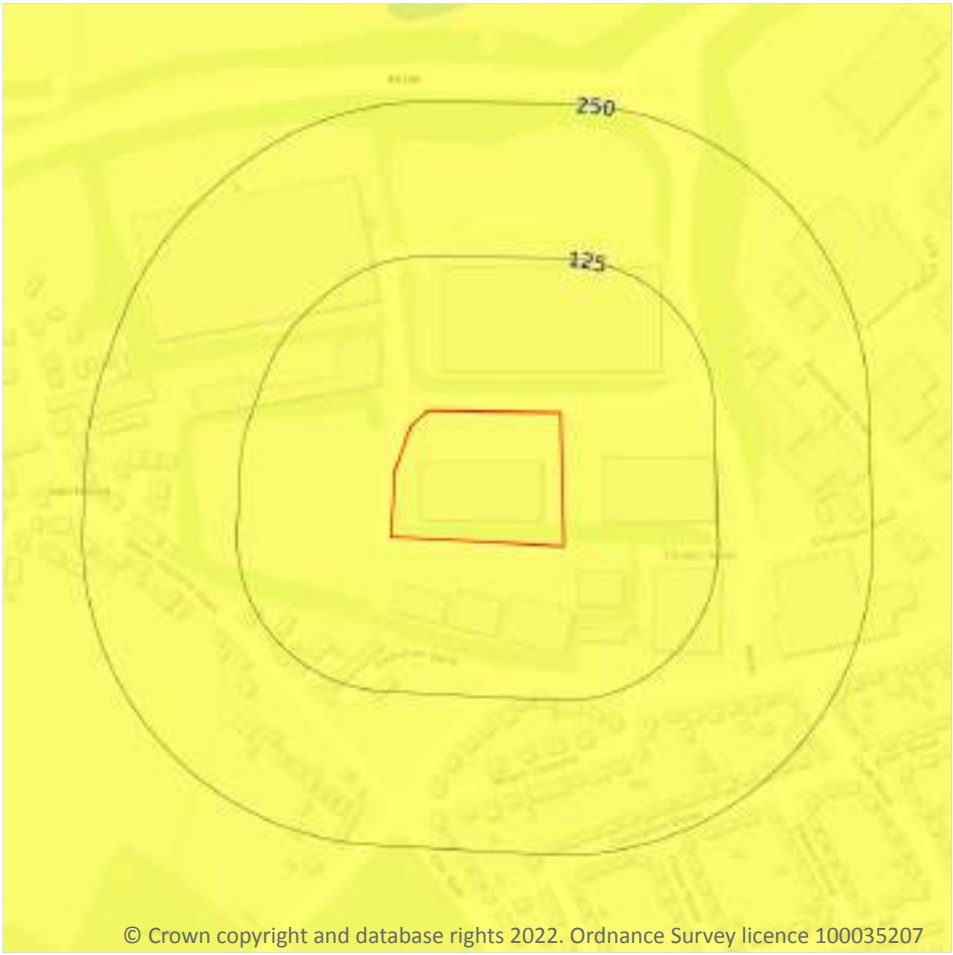
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

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

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	**1**

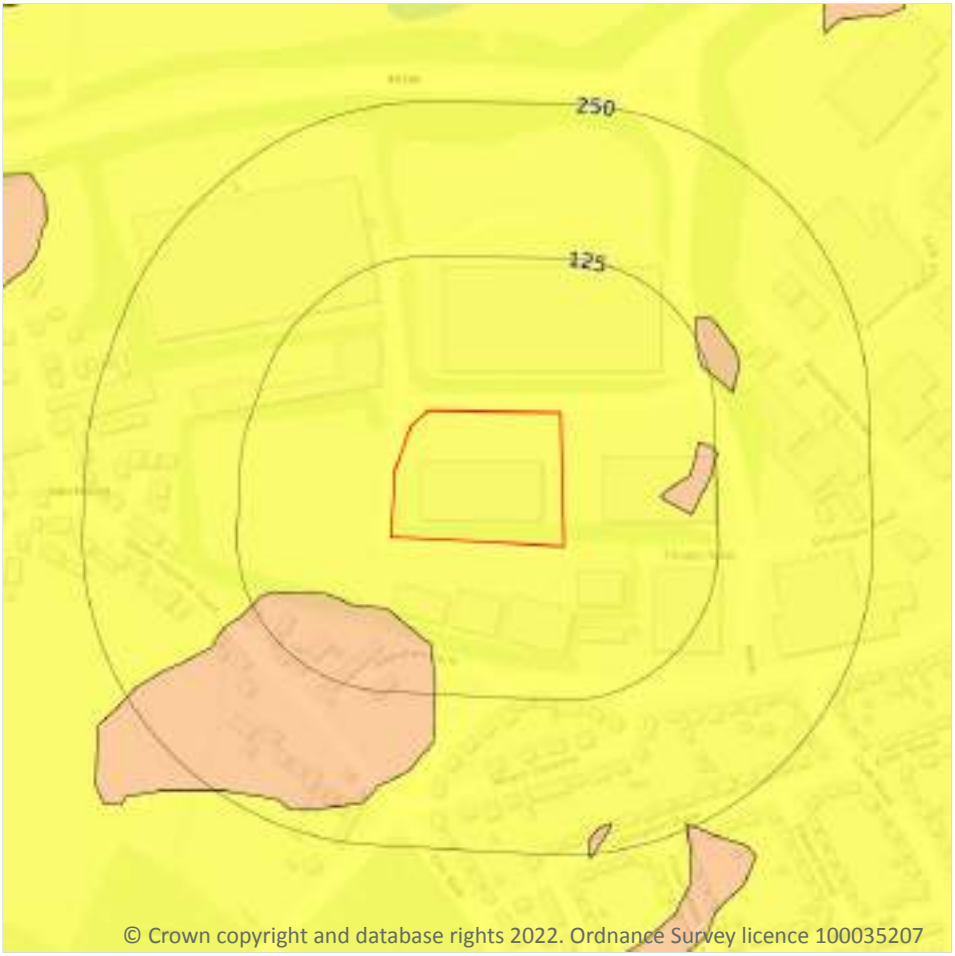
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 86**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 87**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

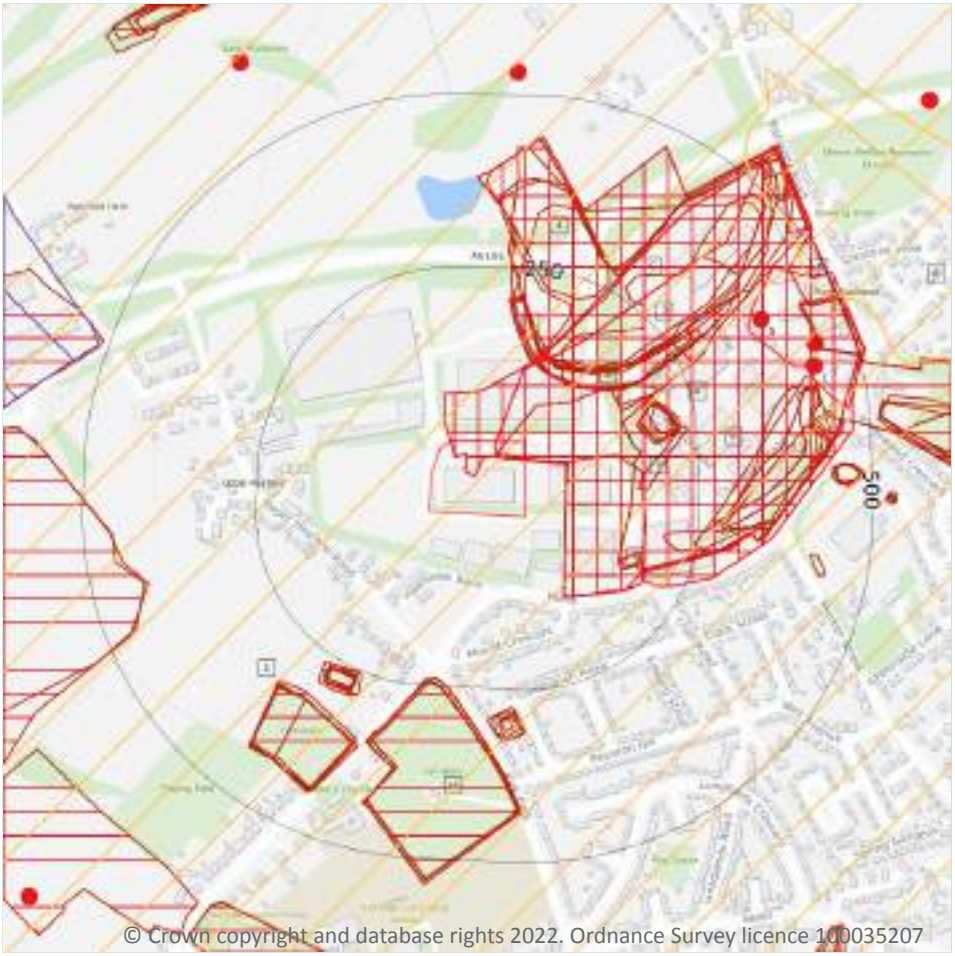
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

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

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

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

BritPits

Surface ground workings

Underground workings

Historical Mineral Planning Areas

Mining Cavities

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 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.

18.2 BritPits

Records within 500m	3

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, ground workings and natural cavities map on **page 89**

ID	Location	Details	Description
5	385m NE	Name: Hoyland Silkstone Colliery, Silkstone Shaft Address: Platts Common, HOYLAND, South 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
L	432m E	Name: Hoyland Silkstone Colliery, Flockton Shaft Address: HOYLAND, South 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
L	442m E	Name: Hoyland Silkstone Colliery, Parkgate Shaft Address: HOYLAND, South 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.

18.3 Surface ground workings

Records within 250m	38

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, ground workings and natural cavities map on **page 89**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Colliery**	**1938**	**1:10560**
A	**On site**	**Colliery**	**1903**	**1:10560**
A	**On site**	**Collieries**	**1891**	**1:10560**
B	102m NE	Cuttings	1966	1:10560
B	102m NE	Cuttings	1903	1:10560
B	102m NE	Cuttings	1891	1:10560
B	103m NE	Cuttings	1948	1:10560
C	105m N	Collieries	1951	1:10560
C	105m N	Refuse Heap	1951	1:10560
C	115m NE	Refuse Heap	1938	1:10560
D	117m N	Cuttings	1891	1:10560
D	118m N	Cuttings	1948	1:10560
C	120m NE	Refuse Heap	1948	1:10560
C	120m NE	Refuse Heap	1948	1:10560
E	120m NE	Collieries	1948	1:10560
E	120m NE	Collieries	1948	1:10560
2	125m NE	Refuse Heap	1891	1:10560
C	126m N	Refuse Heap	1966	1:10560
D	128m N	Cuttings	1966	1:10560
C	130m NE	Refuse Heap	1903	1:10560
B	145m E	Unspecified Heap	1966	1:10560
F	148m SE	Cuttings	1948	1:10560
F	151m SE	Unspecified Pit	1951	1:10560
3	163m E	Unspecified Ground Workings	1951	1:10560
B	165m E	Pond	1938	1:10560
B	166m E	Pond	1948	1:10560
B	170m E	Cooling Pond	1951	1:10560
B	176m E	Pond	1903	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
B	183m E	Pond	1966	1:10560
G	201m E	Refuse Heap	1891	1:10560
4	219m N	Unspecified Heap	1966	1:10560
H	240m S	Cemetery	1966	1:10560
H	240m S	Cemetery	1977	1:10000
H	240m S	Cemetery	1987	1:10000
H	240m S	Cemetery	1951	1:10560
H	244m S	Cemetery	1948	1:10560
H	246m S	Cemetery	1938	1:10560
G	247m E	Unspecified Heap	1966	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	**11**

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, ground workings and natural cavities map on **page 89**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Colliery**	**1938**	**1:10560**
A	**On site**	**Colliery**	**1903**	**1:10560**
A	**On site**	**Collieries**	**1891**	**1:10560**
C	105m N	Collieries	1951	1:10560
L	362m NE	Unspecified Mine	1966	1:10560
9	475m NE	Unspecified Shaft	1977	1:10000
-	768m W	Unspecified Workings	1987	1:10000
-	930m N	Old Colliery	1903	1:10560
-	963m W	Colliery	1938	1:10560
-	963m W	Colliery	1903	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	991m W	Colliery	1977	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	**6**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 89**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Iron Ore (Bedded)**	**B**	**Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered**
8	473m NE	Sheffield Area	Vein Mineral/Iron ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	649m E	Sheffield Area	Vein Mineral/Iron ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
15	699m NE	Sheffield Area	Vein Mineral/Iron ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

ID	Location	Name	Commodity	Class	Likelihood
-	776m N	Sheffield Area	Vein Mineral/Iron ore	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	971m N	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 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.

18.8 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.

18.9 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.

18.10 Brine areas

Records on site	0

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

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

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

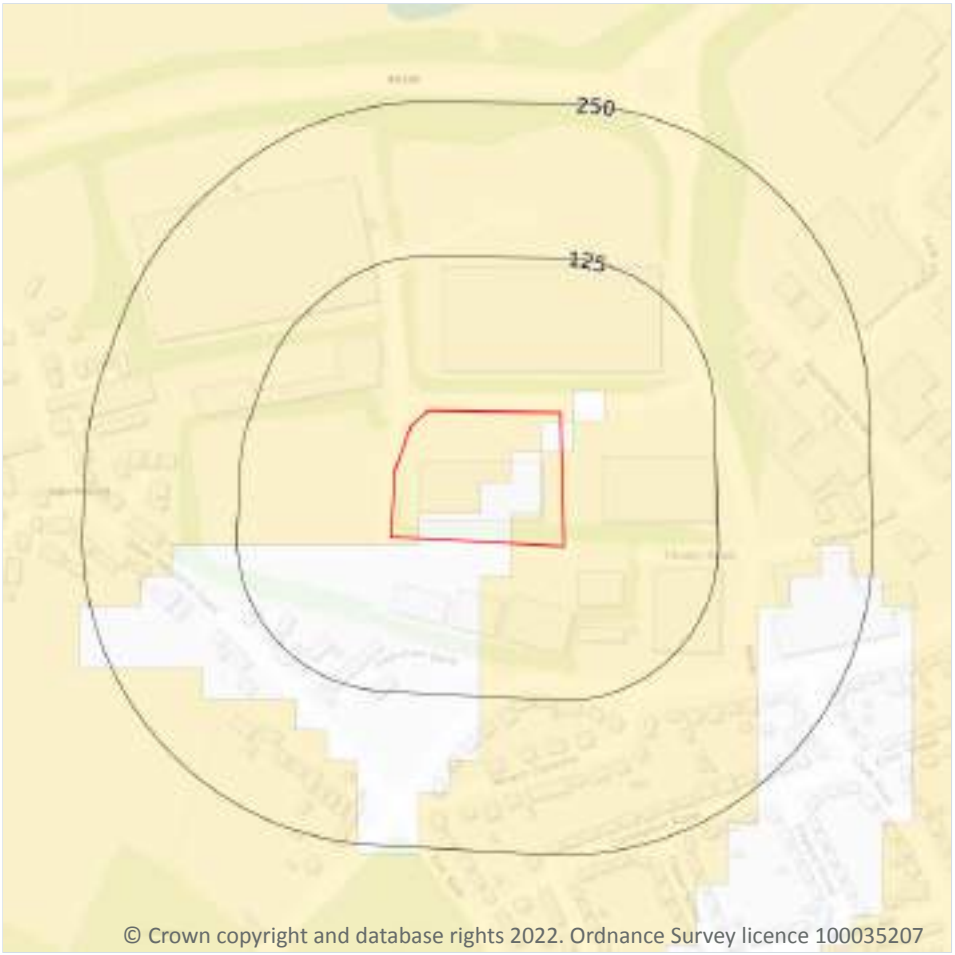
18.13 Clay mining

Records on site	0

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

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

19 Radon



Site Outline

Search buffers in metres (m)

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

19.1 Radon

Records on site	2

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 96**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Less than 1%**	**None****
On site	**Between 1% and 3%**	**None**

This data is sourced from the British Geological Survey and Public Health England.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	5

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**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**
On site	**15 - 25 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
31m SE	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.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

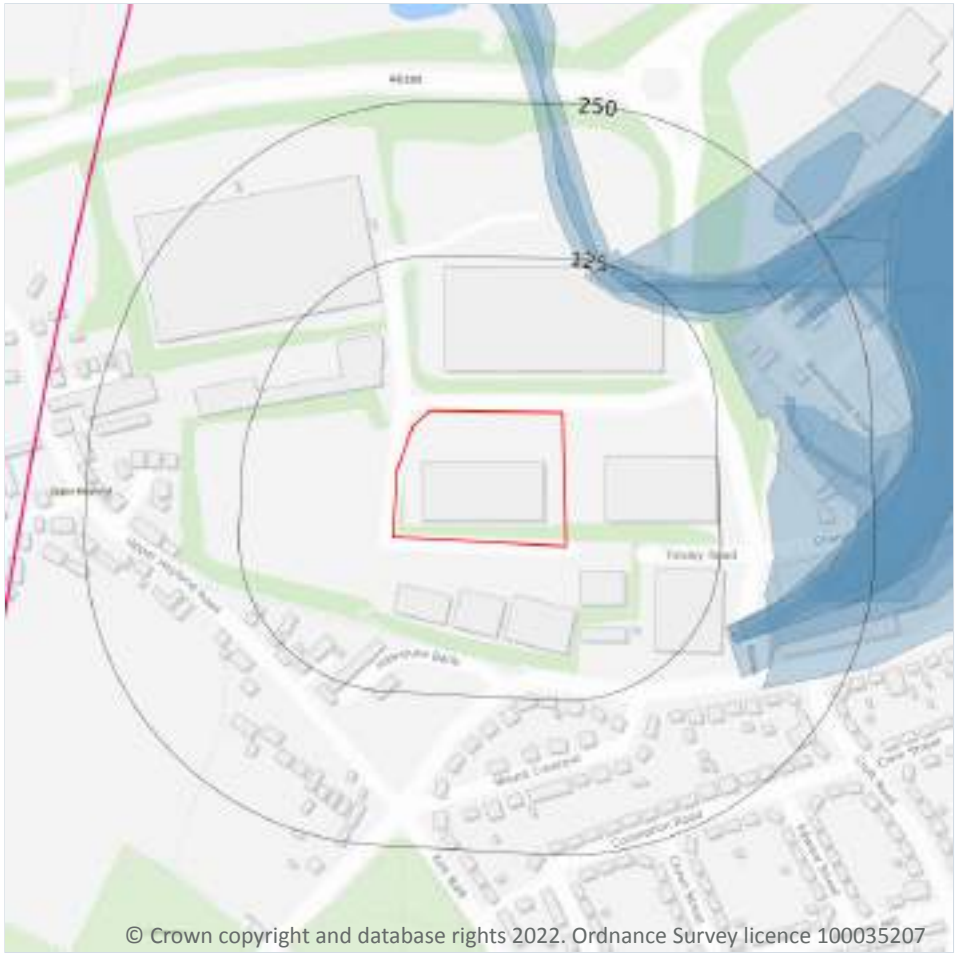
20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 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.

21.2 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.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	17

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

Features are displayed on the Railway infrastructure and projects map on **page 100**

Location	Land Use	Year of mapping	Mapping scale
102m NE	Railway Sidings	1891	10560
106m NE	Railway	1931	-
113m NE	Railway	1931	-
113m NE	Railway	1906	-
115m NE	Railway	1906	-
142m NE	Railway Sidings	1903	10560
145m SE	Railway Sidings	1938	10560
148m SE	Railway Sidings	1948	10560
152m SE	Railway Sidings	1931	2500
153m SE	Railway	1931	-
178m NE	Railway Sidings	1931	2500
182m E	Railway Sidings	1893	2500
197m NE	Railway Sidings	1906	2500
202m E	Railway Sidings	1906	2500
207m E	Railway Sidings	1906	2500
215m NE	Railway Sidings	1905	2500
234m NE	Railway Sidings	1893	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 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.

21.6 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.

21.7 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.

21.8 Crossrail 1

Records within 500m	0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 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.

21.10 HS2

Records within 500m	1

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.

Features are displayed on the Railway infrastructure and projects map on **page 100**

Location	Track Type	Speed (mph)	Speed (km/h)	Status
292m W	Tunnel	224mph	360kph	Section is scheduled for cancellation

This data is sourced from HS2 ltd.

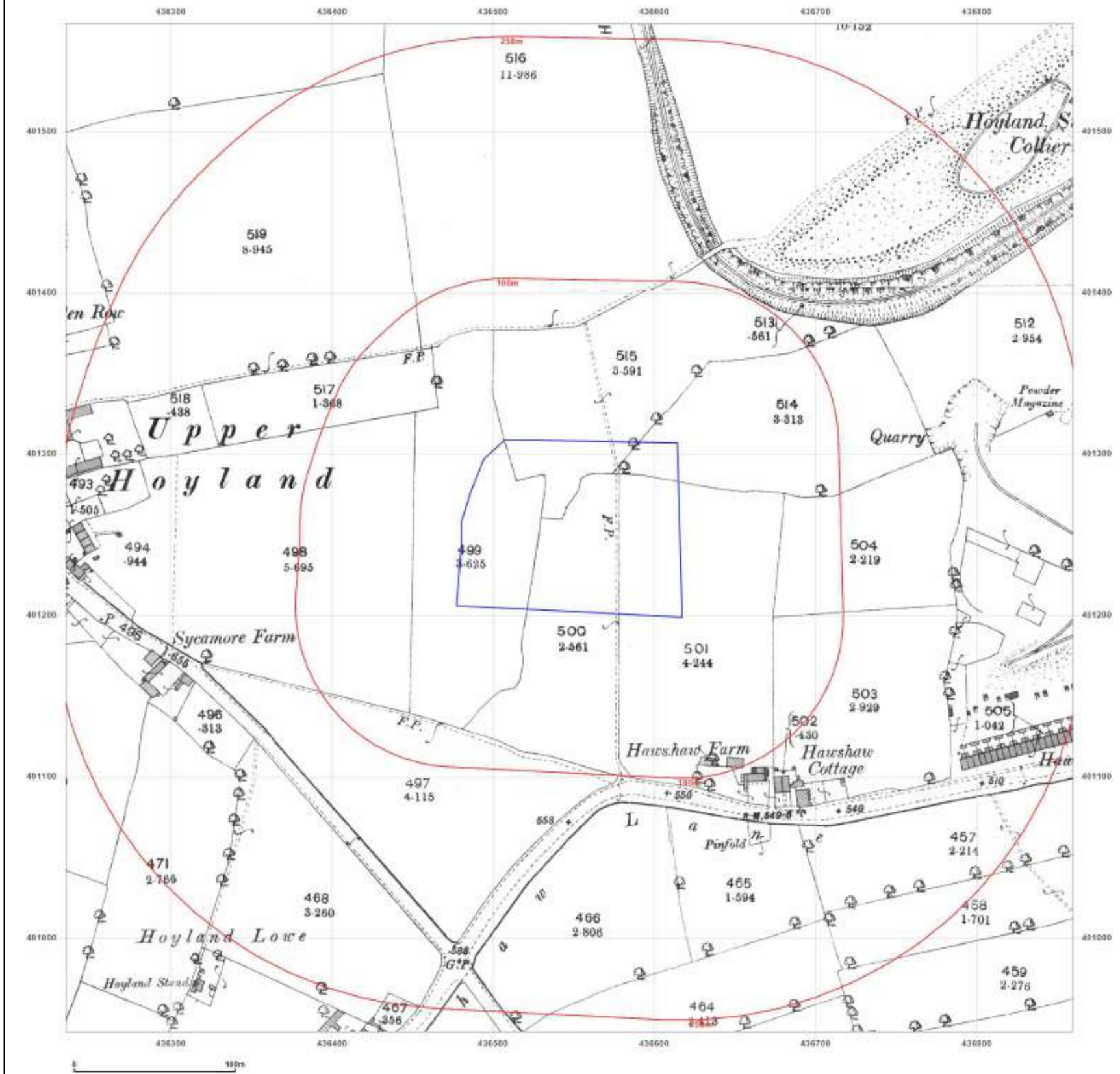
Data providers

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

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Appendix C
Historical Maps



Groundsure INSIGHTS

Site Details:

UNIT 5C, ASHROYDS WAY,
PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: County Series

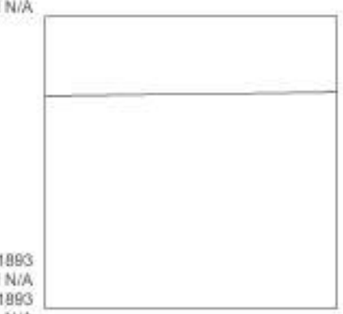
Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

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

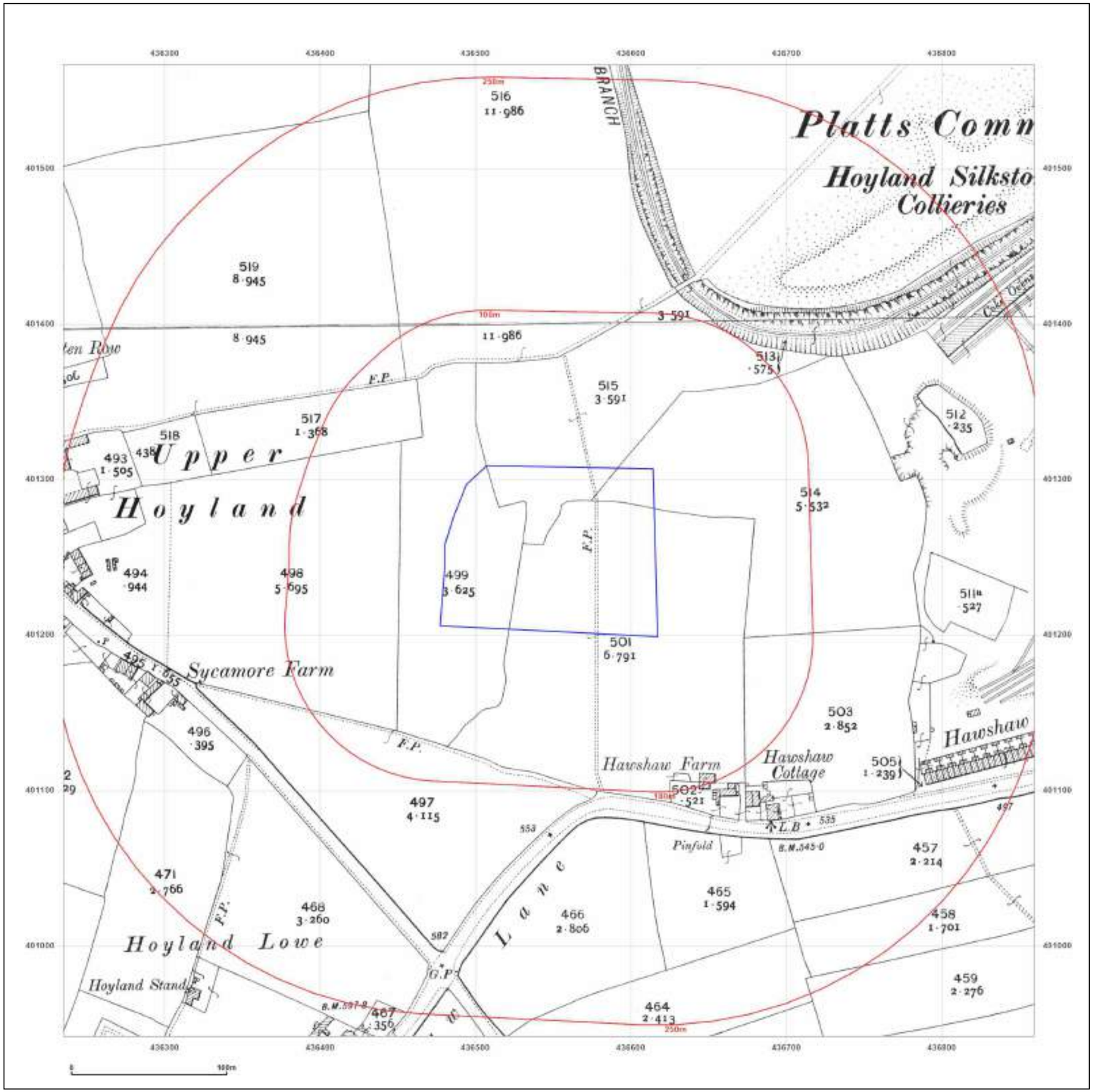
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Site Details:

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Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: County Series

Map date: **1905-1906**

Scale: 1:2,500

Printed at: 1:2,500

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Revised 1901
Edition 1905
Copyright N/A
Levelled N/A

Surveyed 1890
Revised 1904
Edition N/A
Copyright N/A
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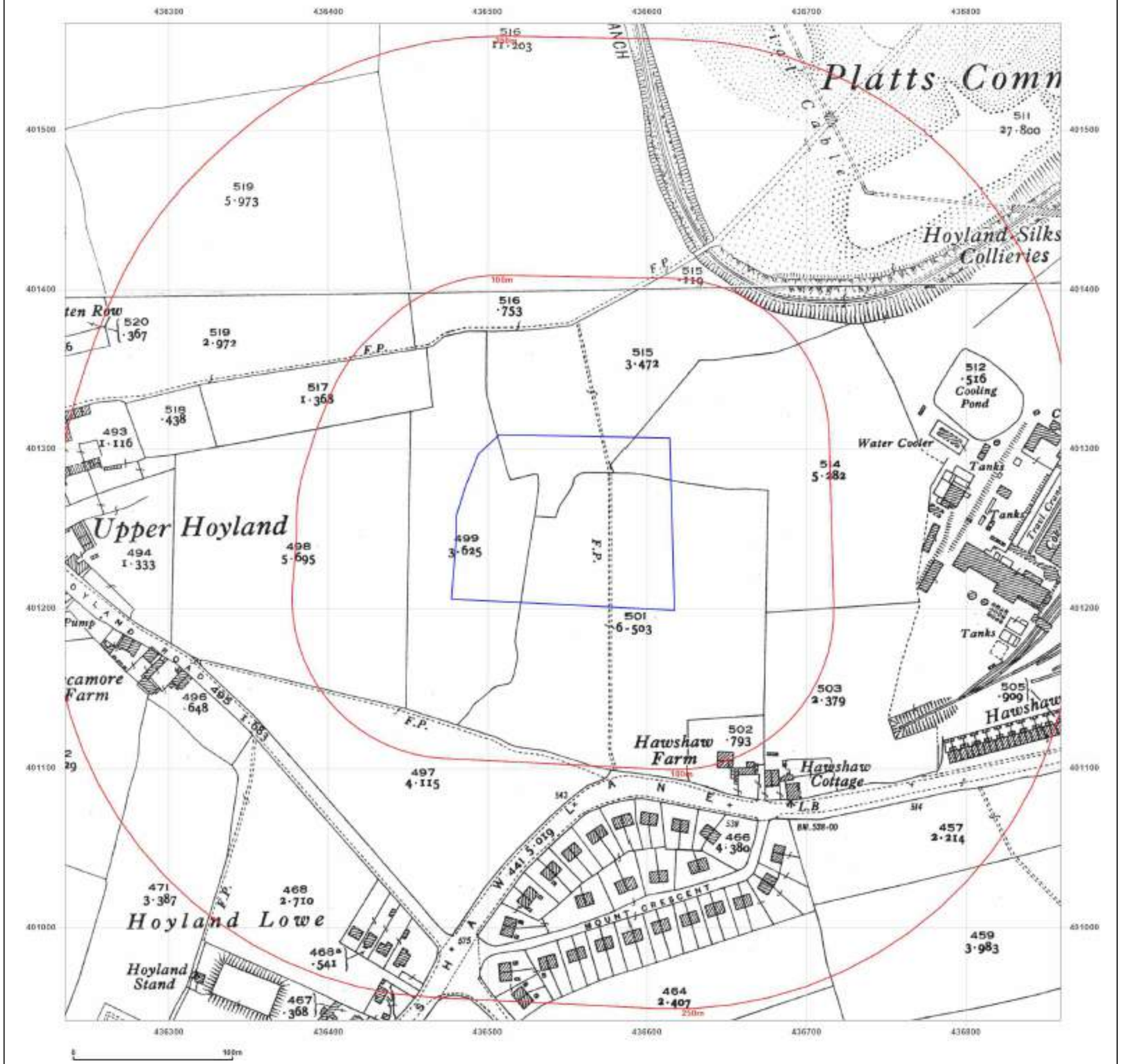
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Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: County Series

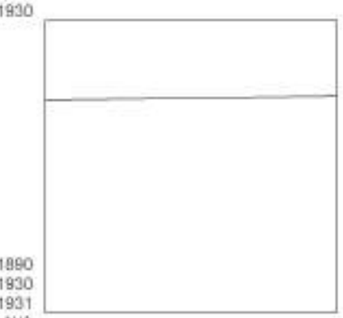
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Scale: 1:2,500

Printed at: 1:2,500

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Revised 1930
Edition 1931
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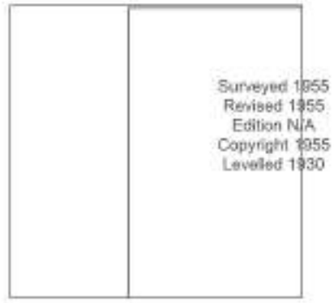
Site Details:

UNIT 5C, ASHROYDS WAY,
PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid
Map date: **1955**
Scale: 1:1,250
Printed at: 1:2,000

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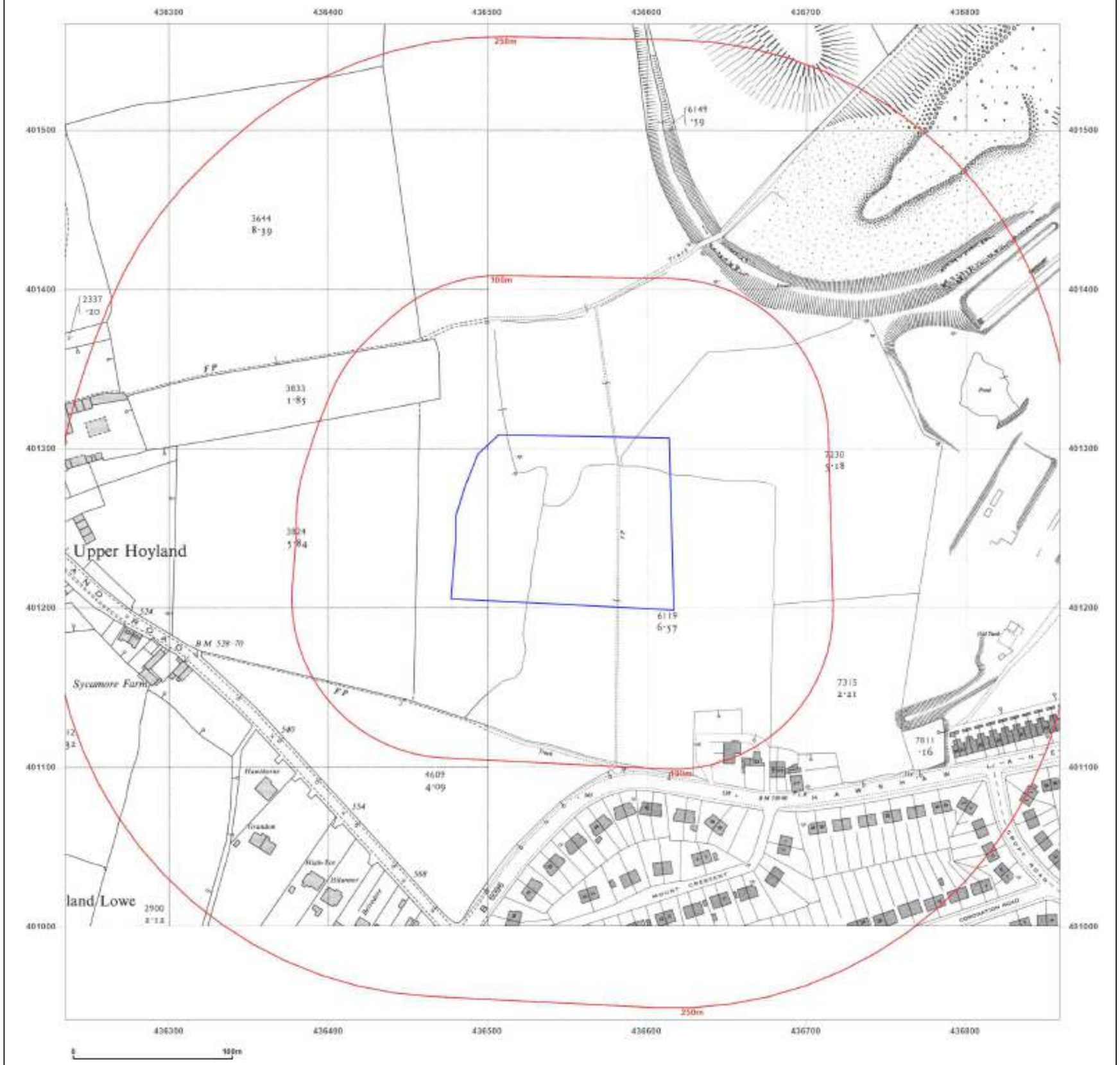
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Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

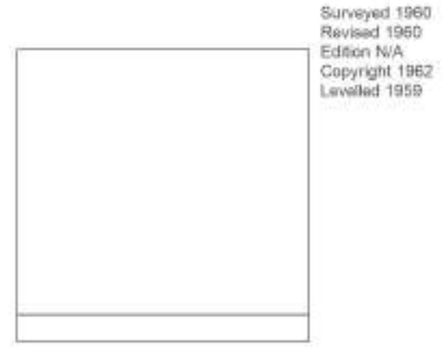
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Scale: 1:2,500

Printed at: 1:2,500

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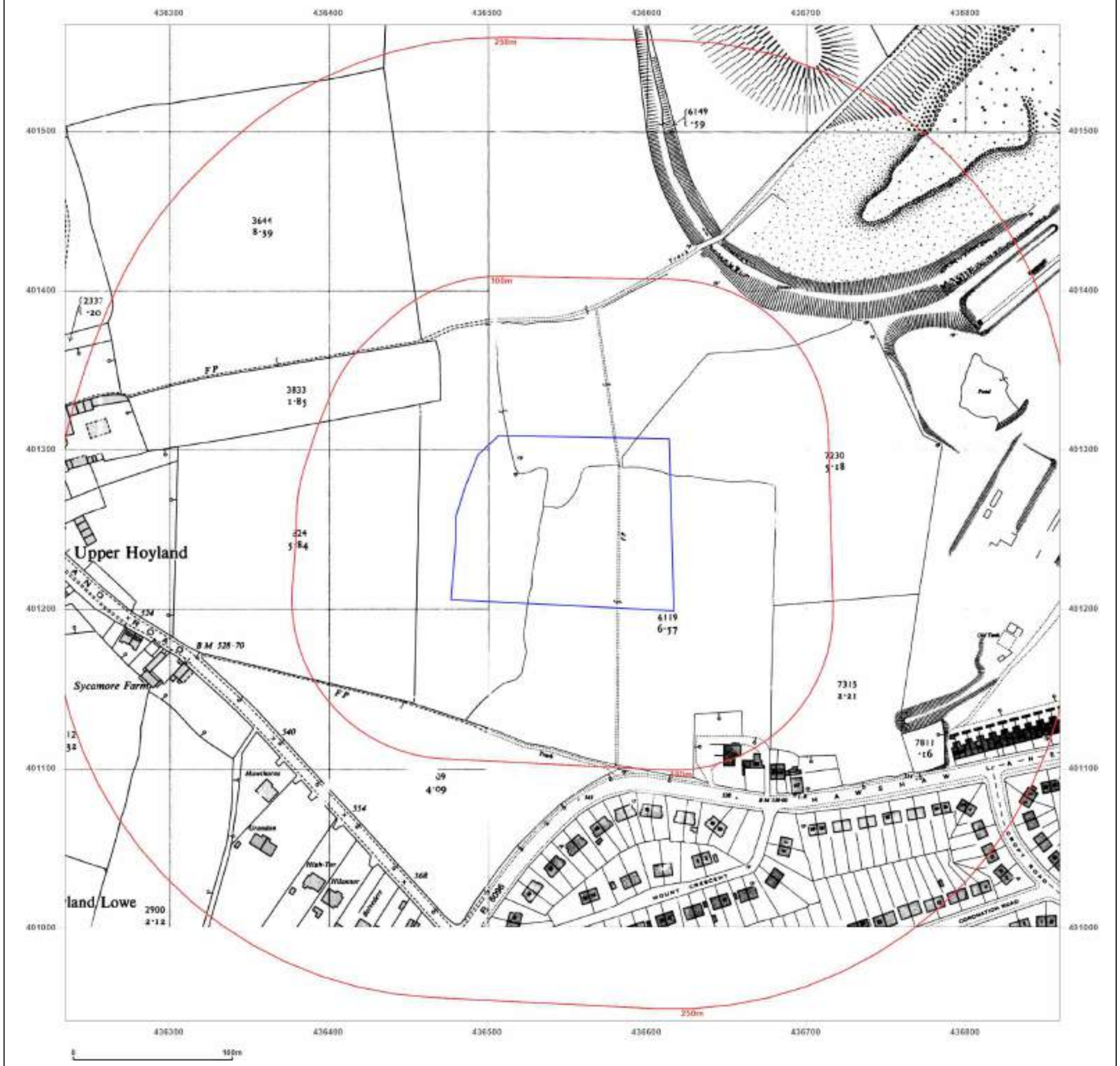
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S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

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Copyright N/A
Levelled N/A

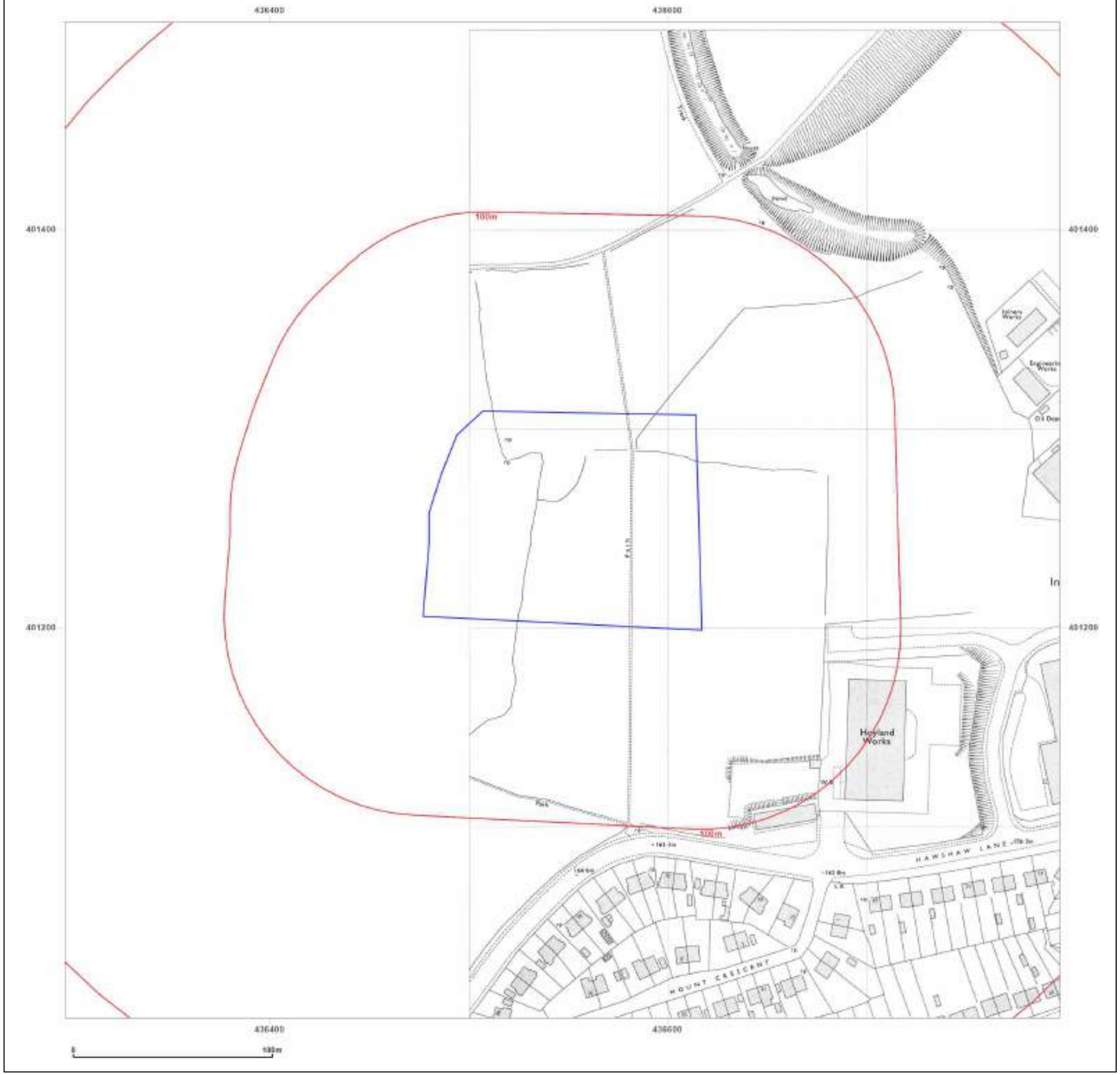
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Groundsure INSIGHTS

Site Details:

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S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

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

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Groundsure INSIGHTS

Site Details:

UNIT 5C, ASHROYDS WAY,
PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid
Map date: **1979**
Scale: 1:1,250
Printed at: 1:2,000

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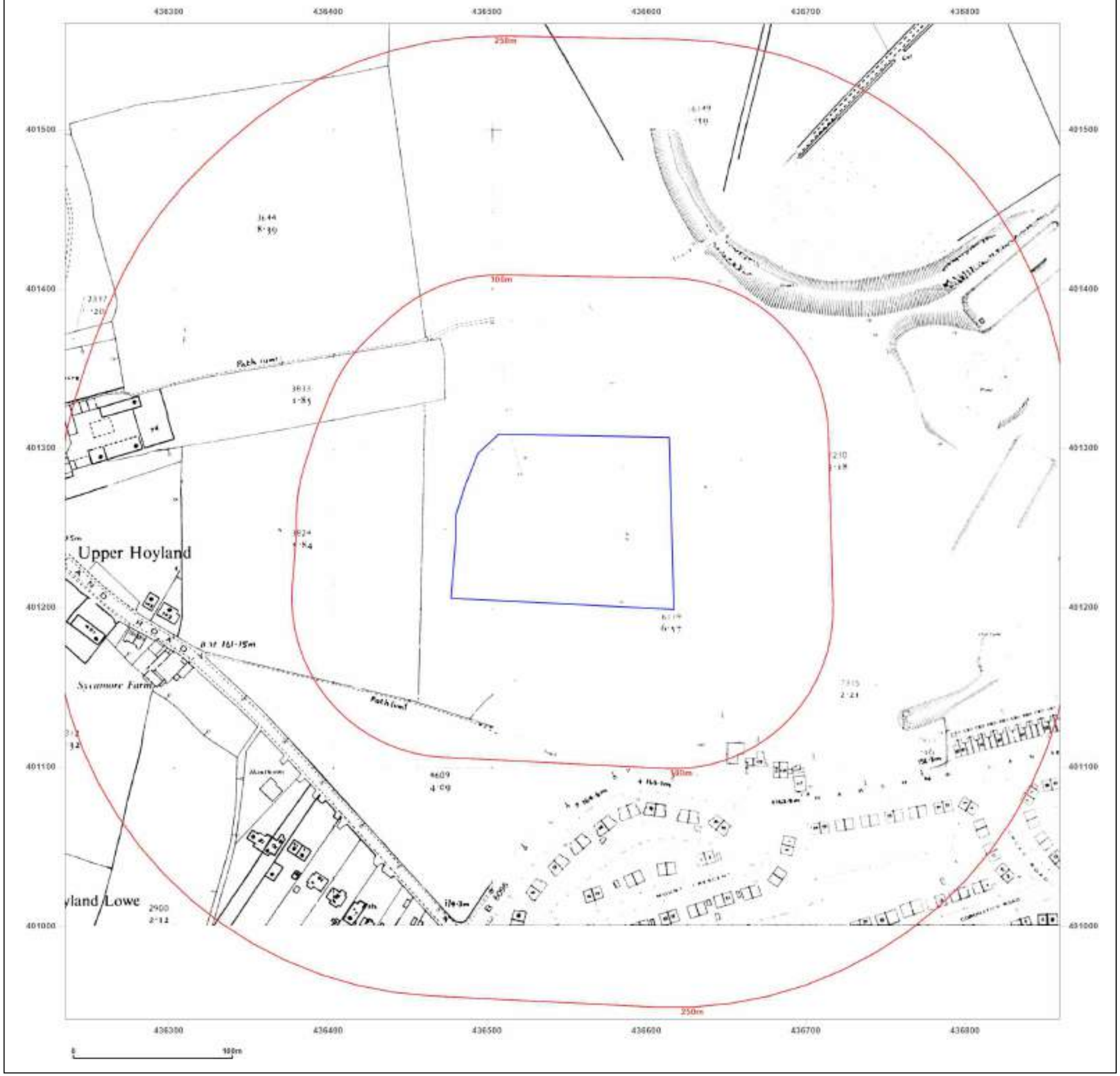
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Site Details:

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S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid

Map date: **1979**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1979
Levelled 1963

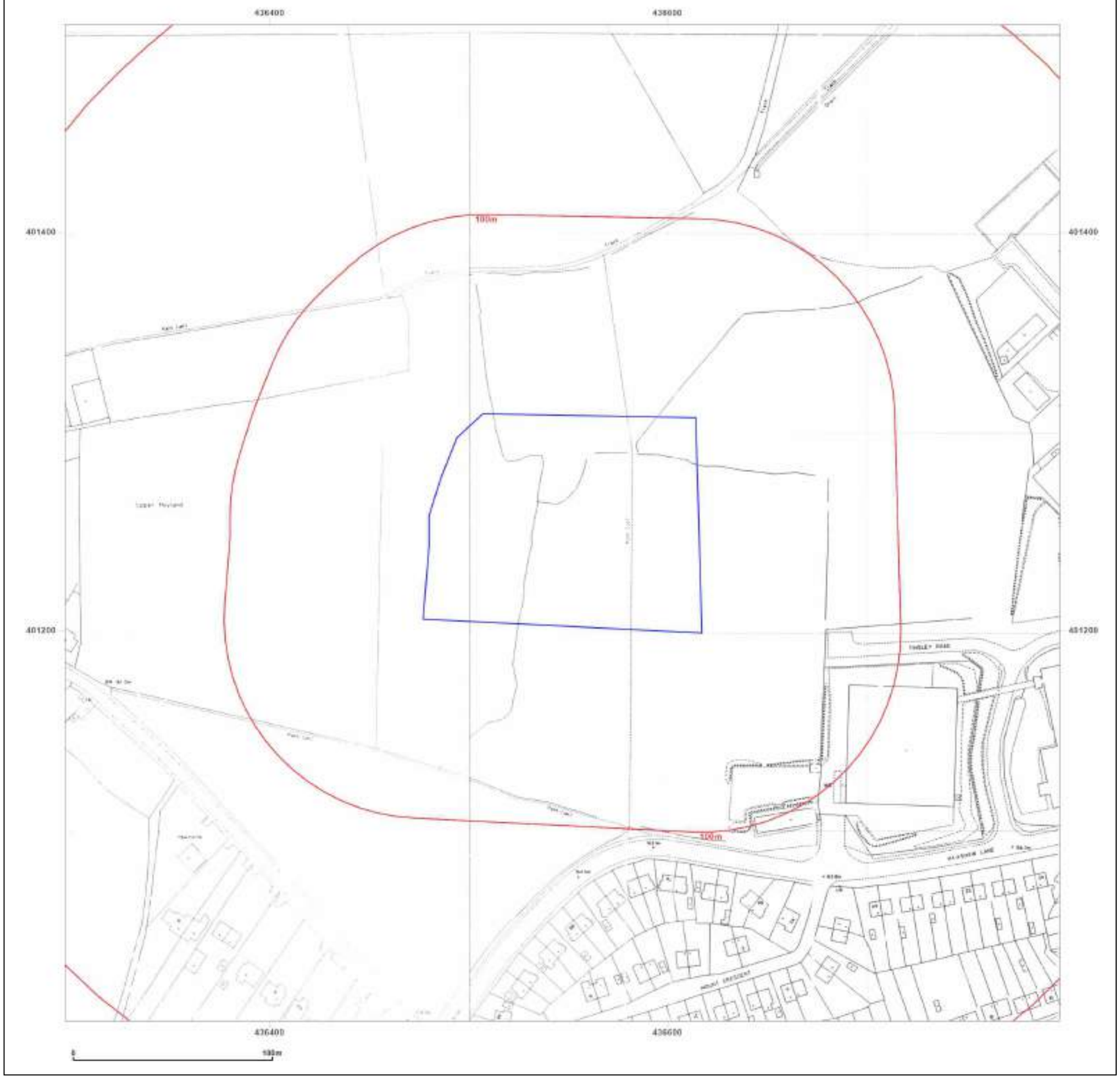
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S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000

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

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

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Edition N/A
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Revised 1993
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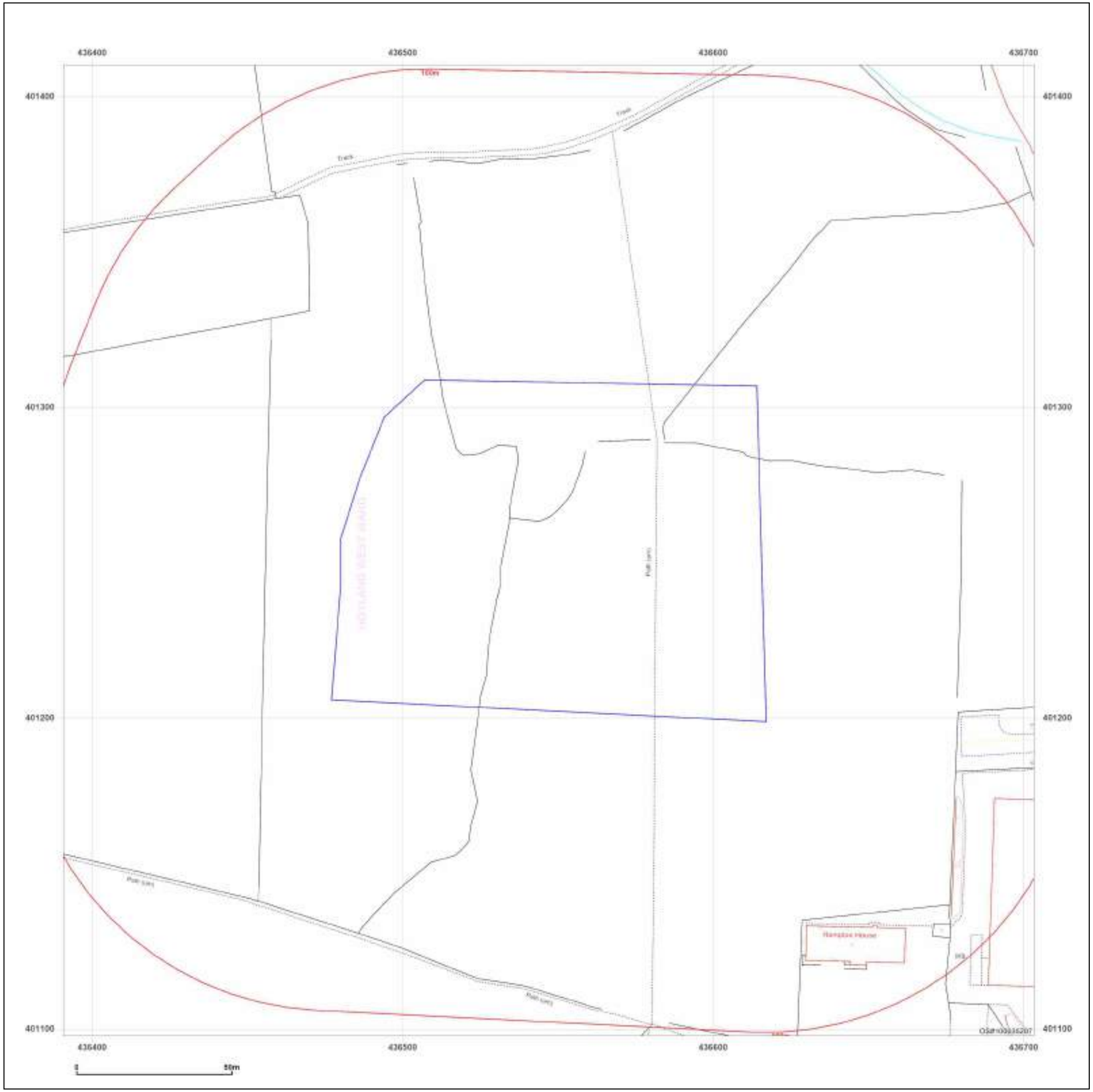
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Site Details:

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S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

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

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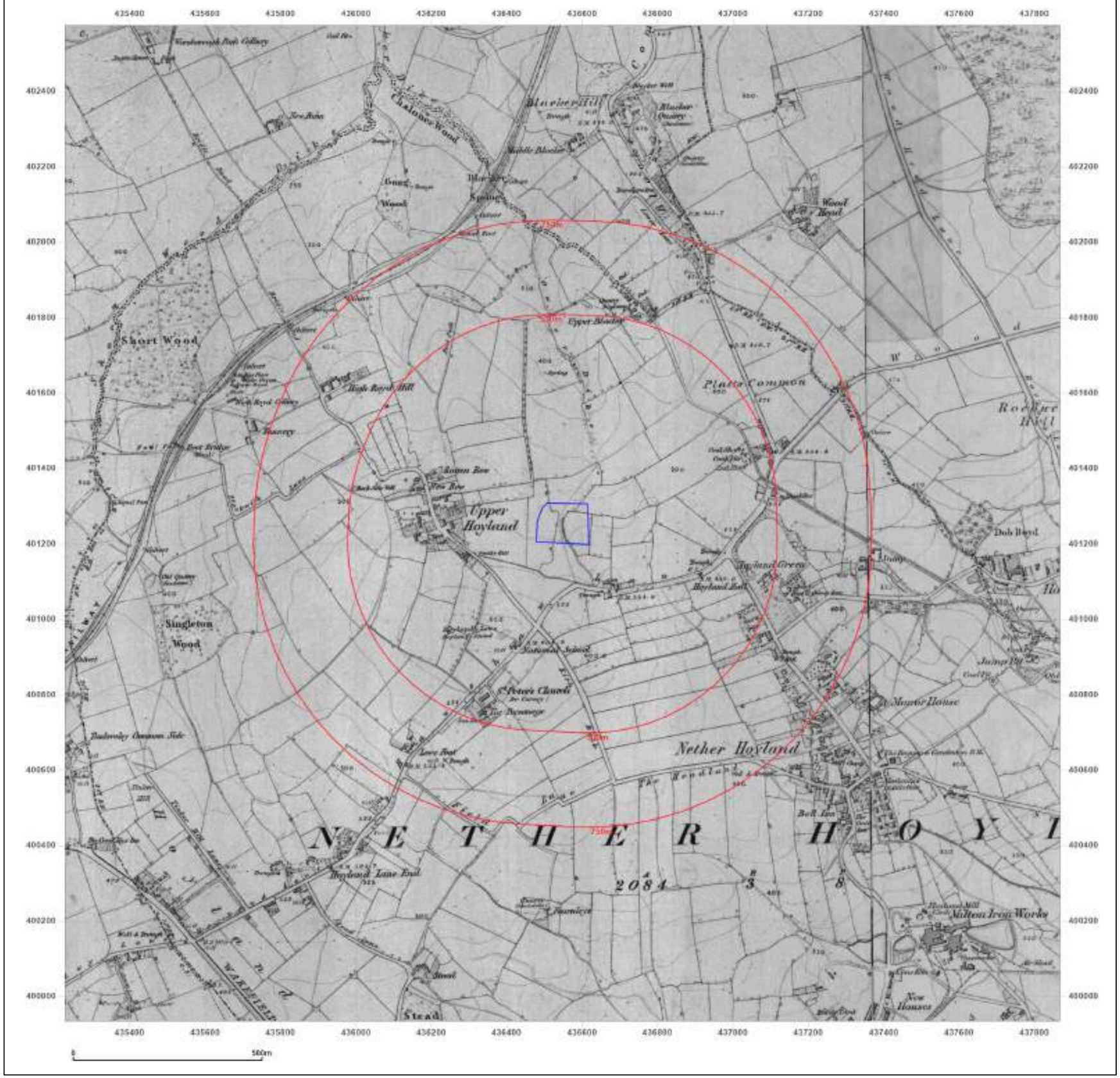
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Site Details:

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S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

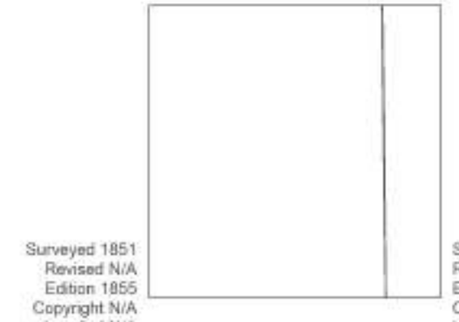
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Map date: **1850-1855**

Scale: 1:10,560

Printed at: 1:10,560

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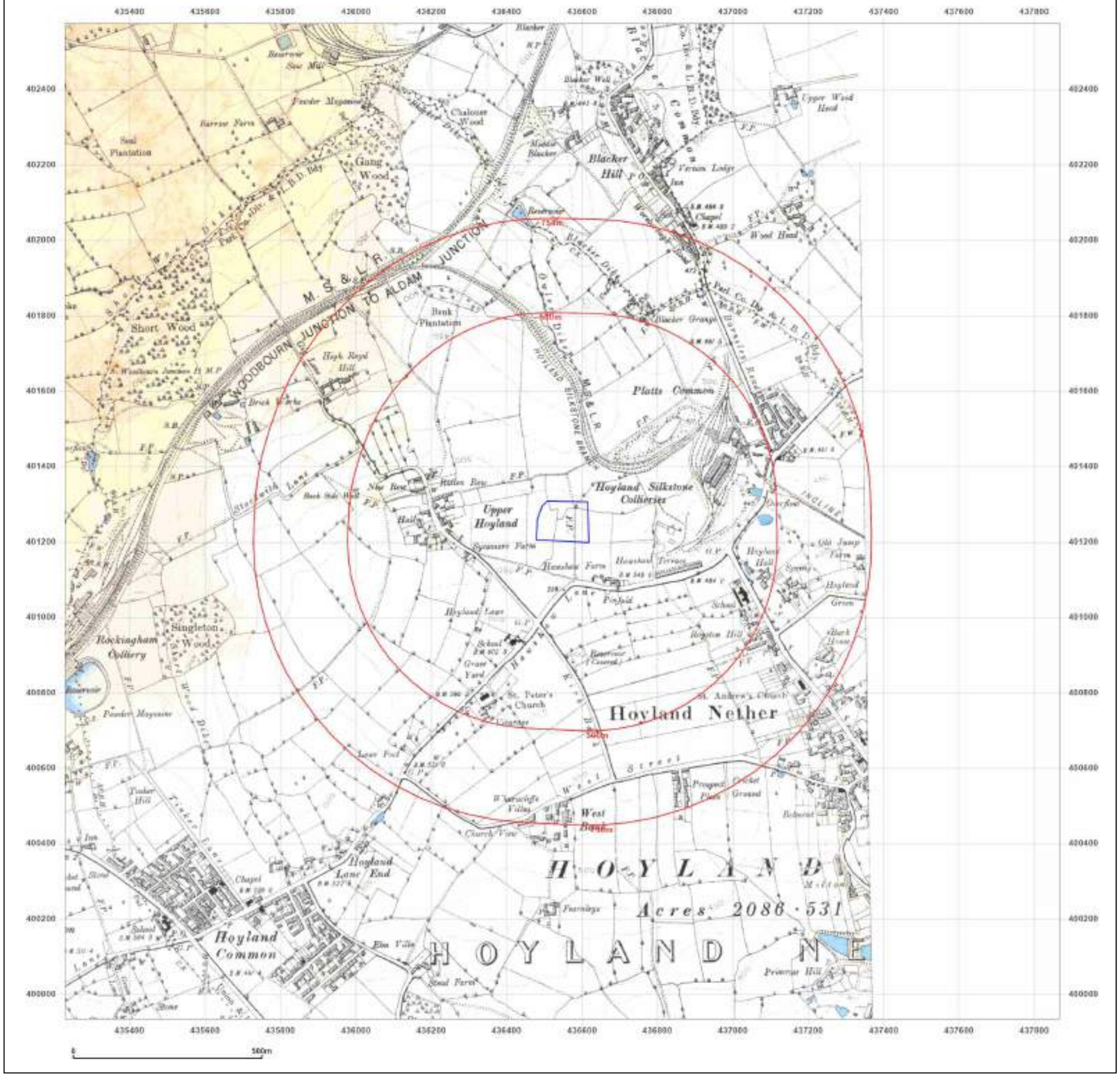
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Site Details:

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PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: County Series

Map date: **1891**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1891
Revised 1891
Edition 1891
Copyright N/A
Levelled N/A

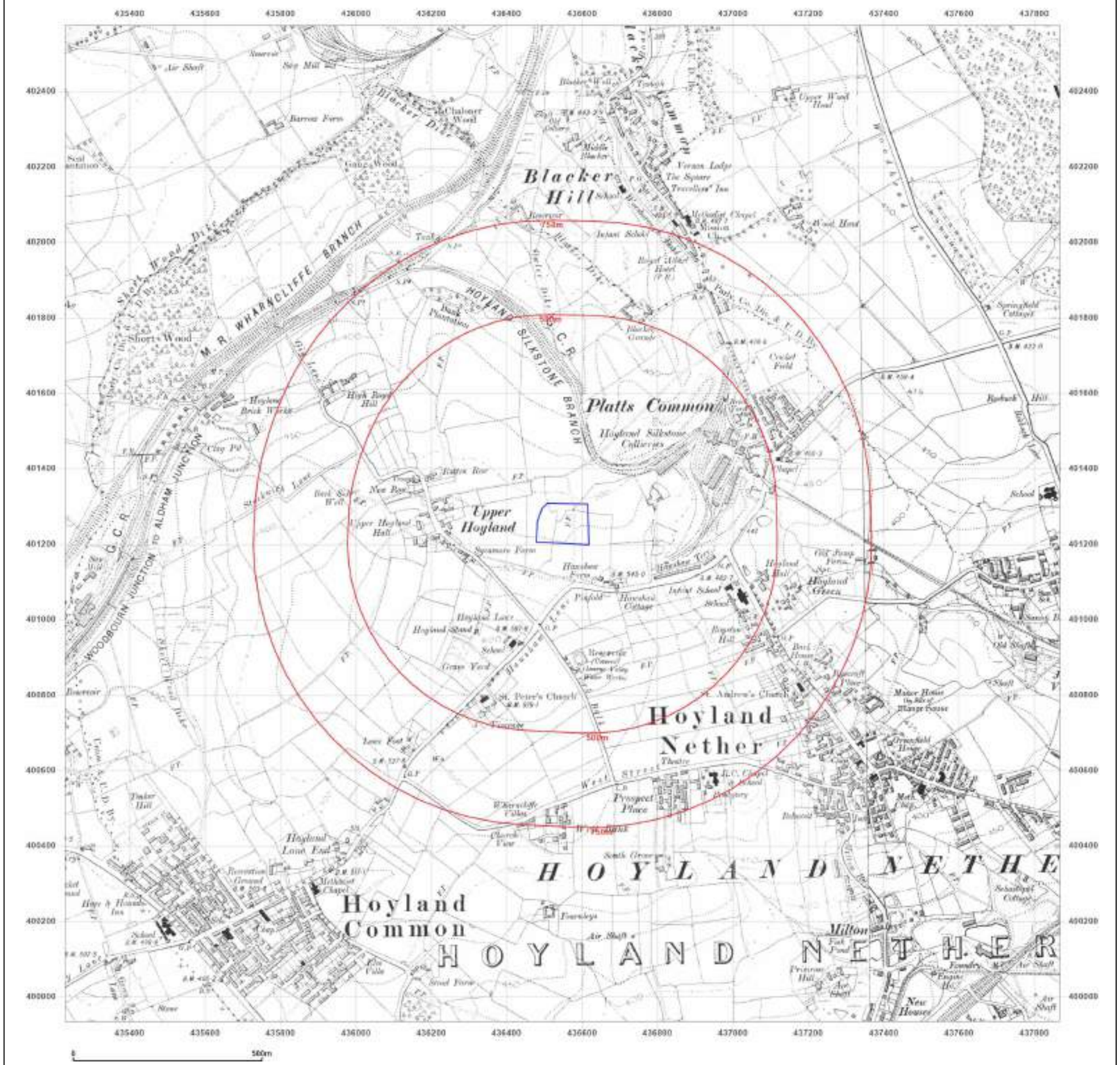
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Site Details:

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PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: County Series

Map date: **1901-1903**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1891
Revised 1903
Edition 1903
Copyright N/A
Levelled N/A

Surveyed 1890
Revised 1901
Edition 1901
Copyright N/A
Levelled N/A

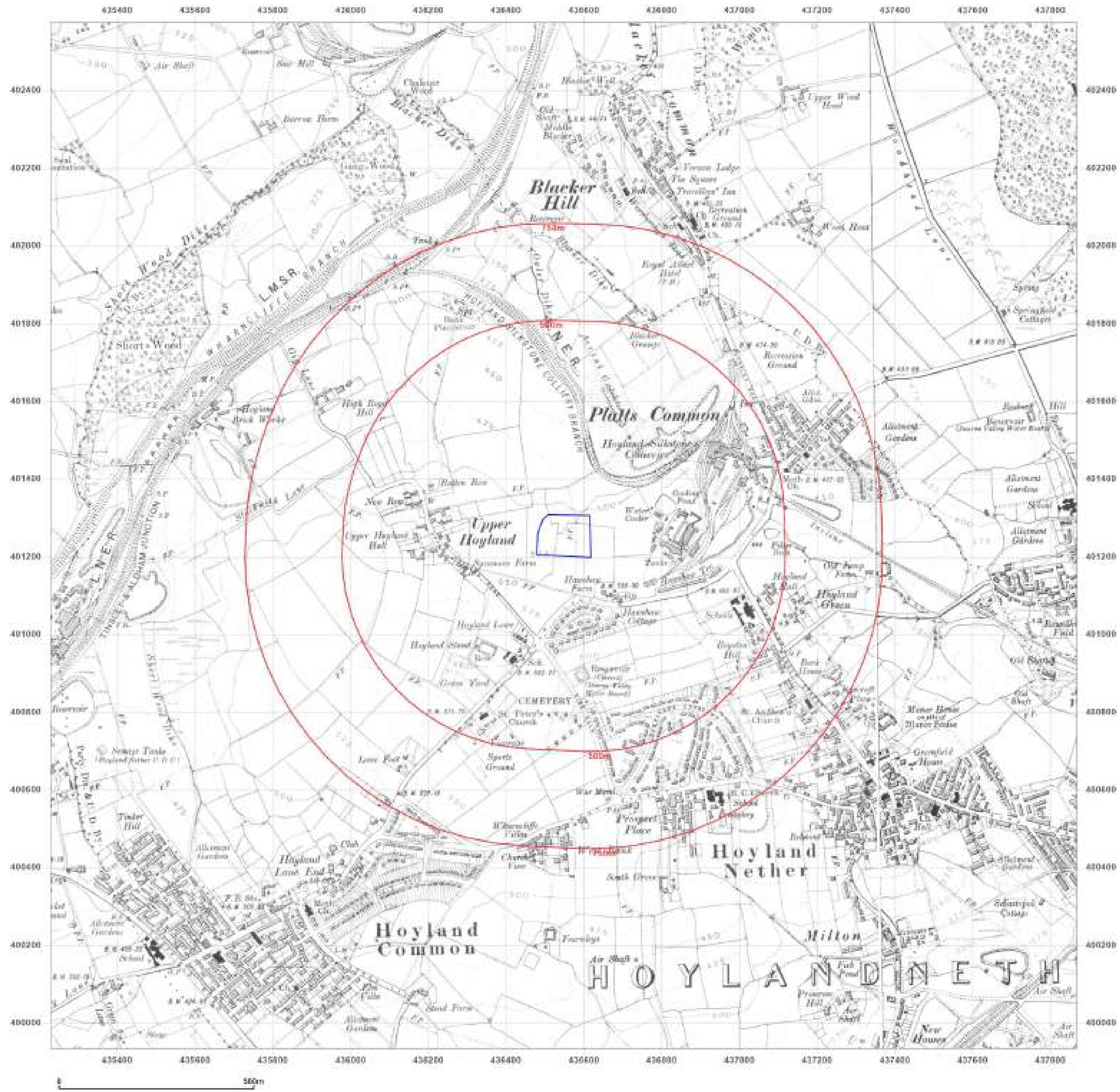
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S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

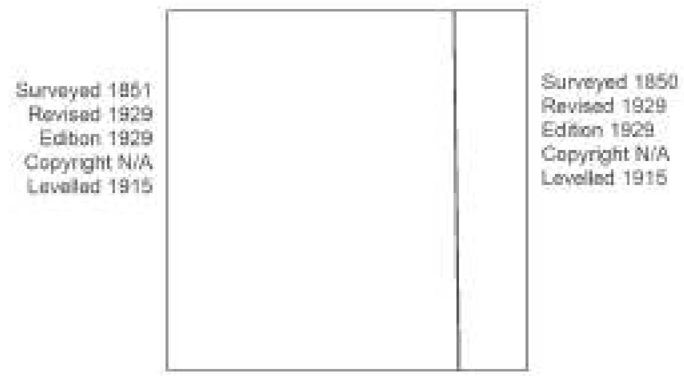
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Map date: **1929**

Scale: 1:10,560

Printed at: 1:10,560

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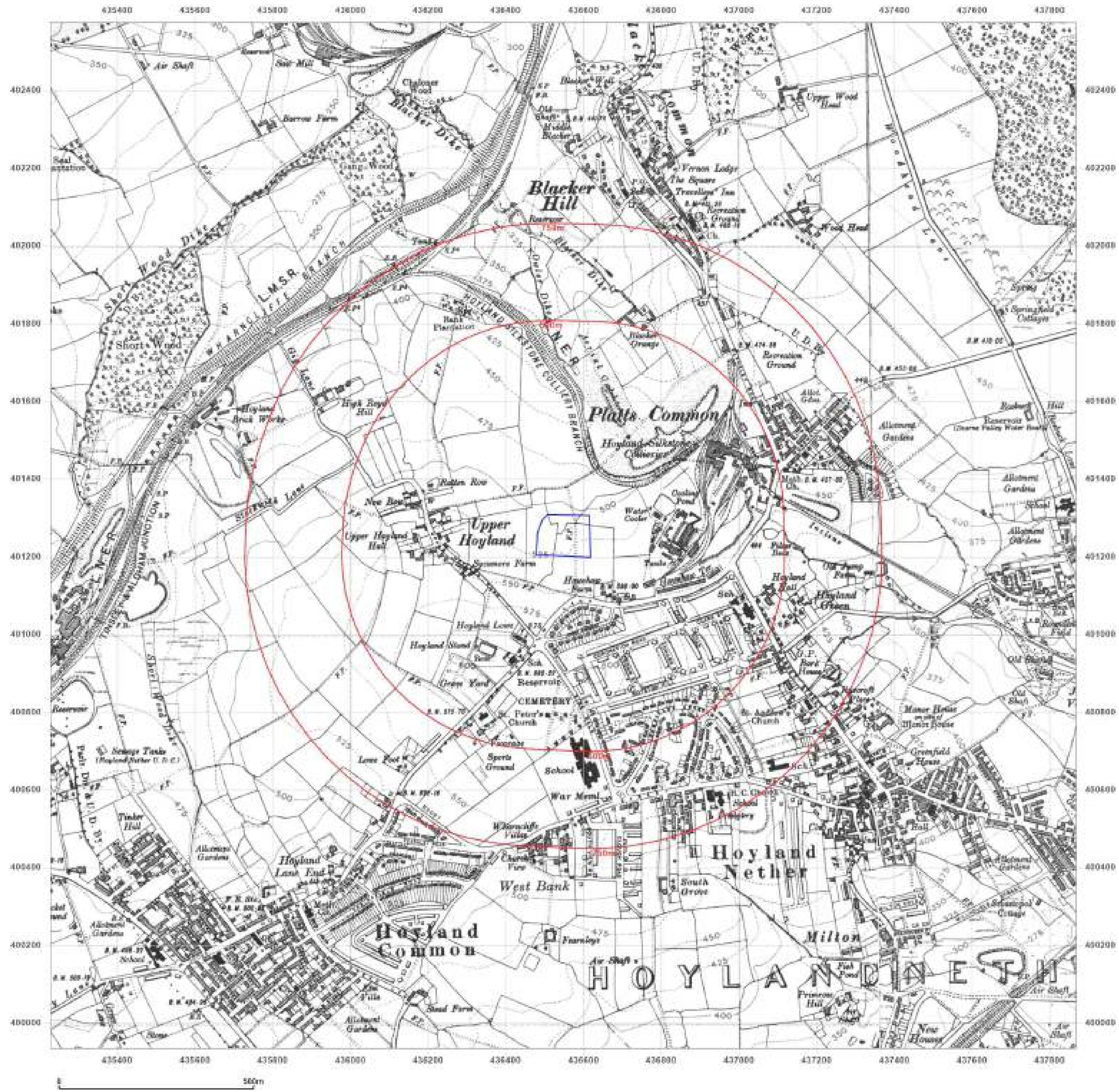
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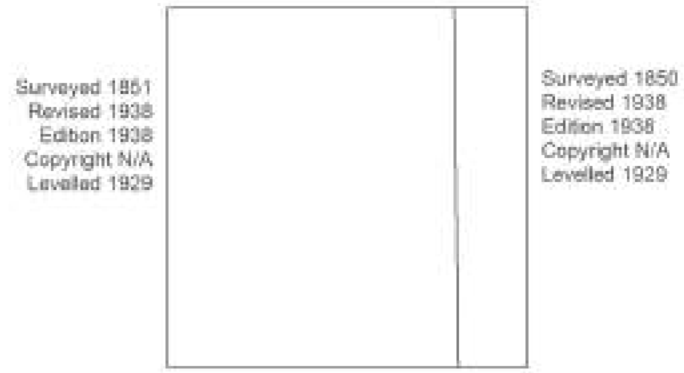
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PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref:	22229-G-01
Report Ref:	GS-9136456
Grid Ref:	436547, 401254

Map Name:	County Series
Map date:	**1938**
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Printed at:	1:10,560

N W E S



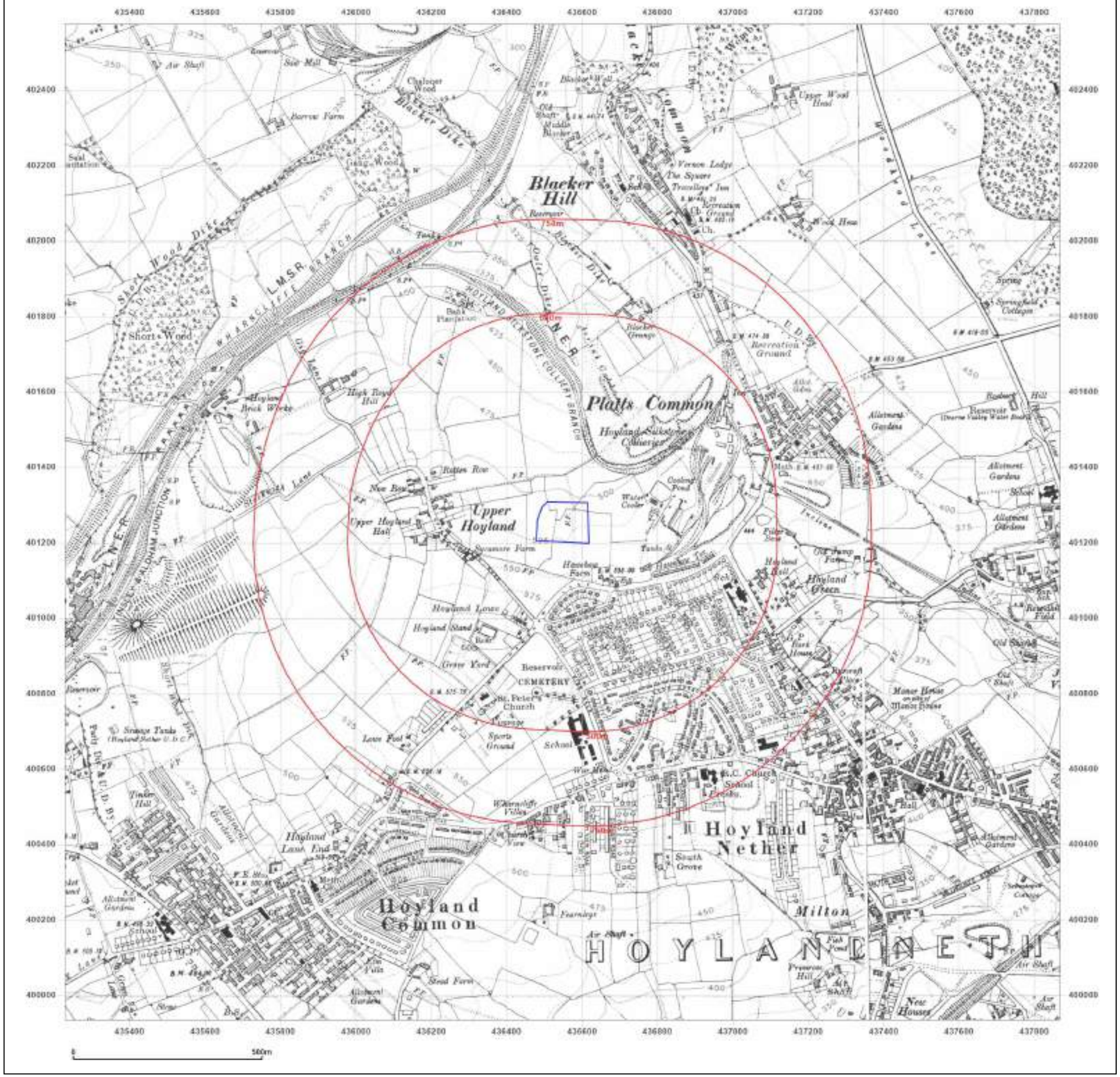
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S74 9SB

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Report Ref: GS-9136456
Grid Ref: 436547, 401254

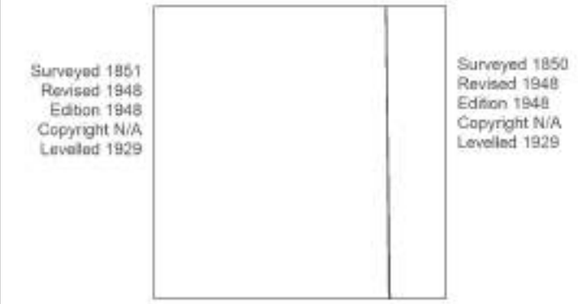
Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

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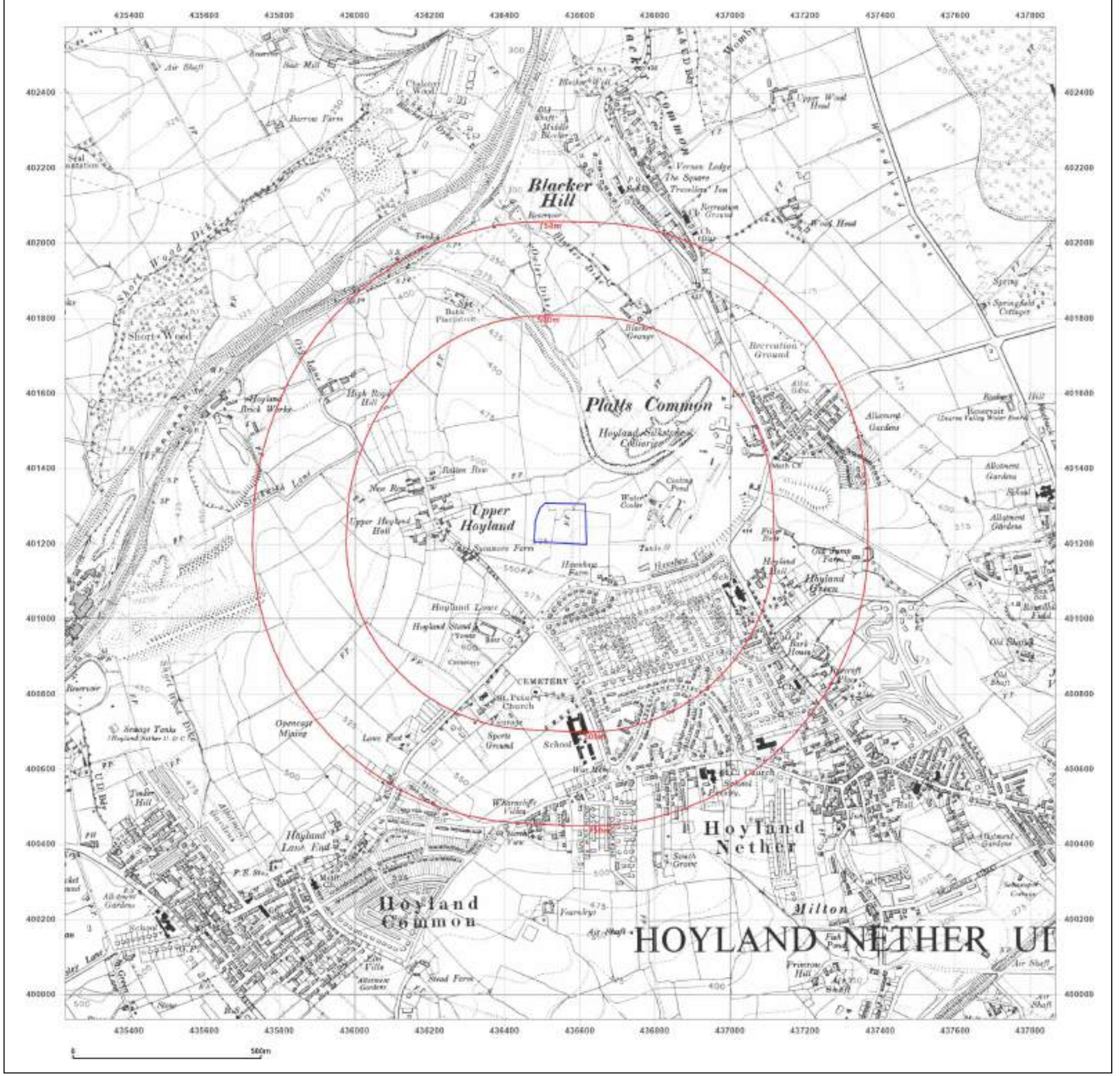
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Site Details:

UNIT 5C, ASHROYDS WAY,
PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: Provisional

Map date: **1951**

Scale: 1:10,560

Printed at: 1:10,560

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

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

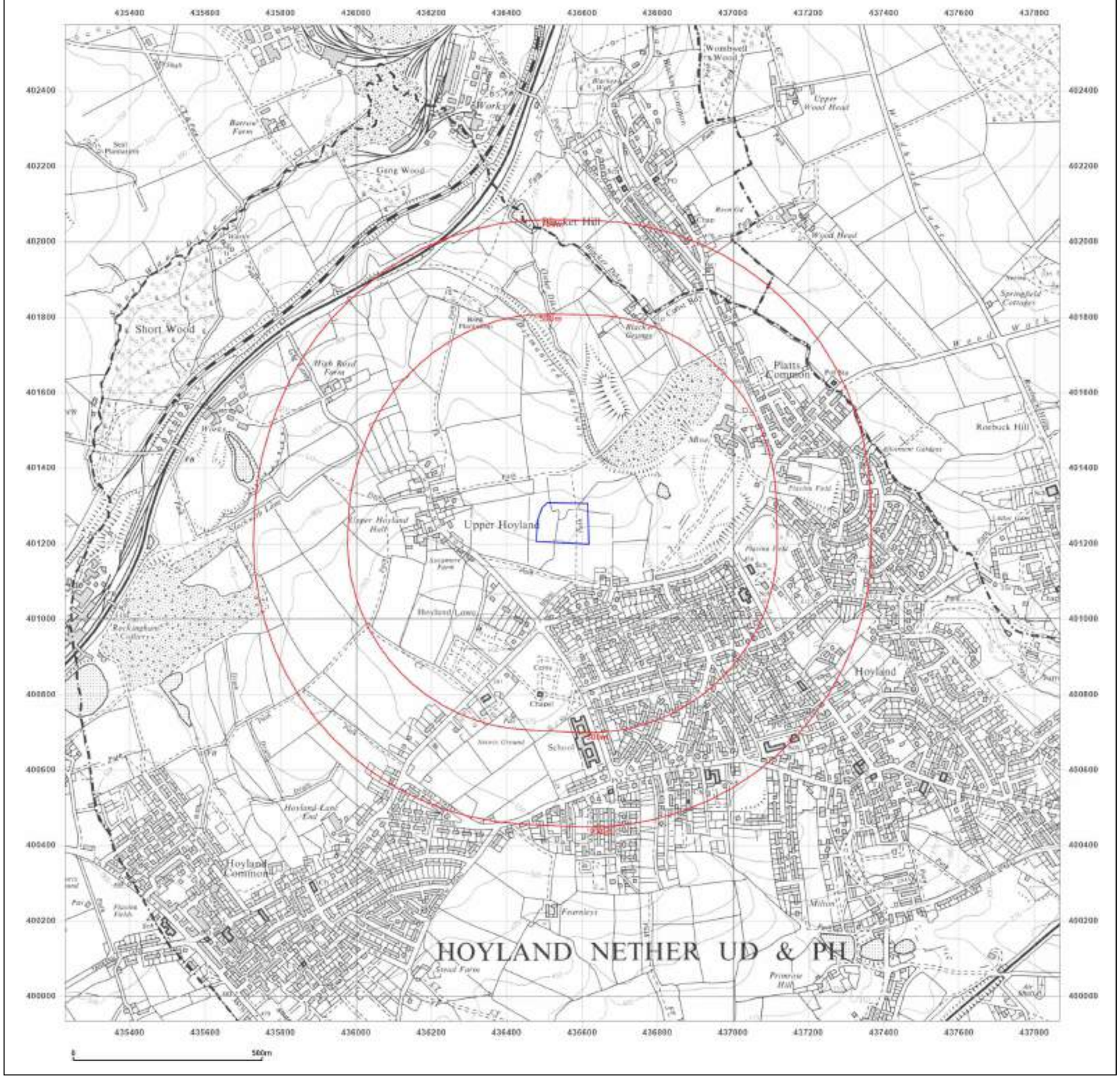
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Site Details:

UNIT 5C, ASHROYDS WAY,
PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: Provisional

Map date: **1965-1966**

Scale: 1:10,560

Printed at: 1:10,560

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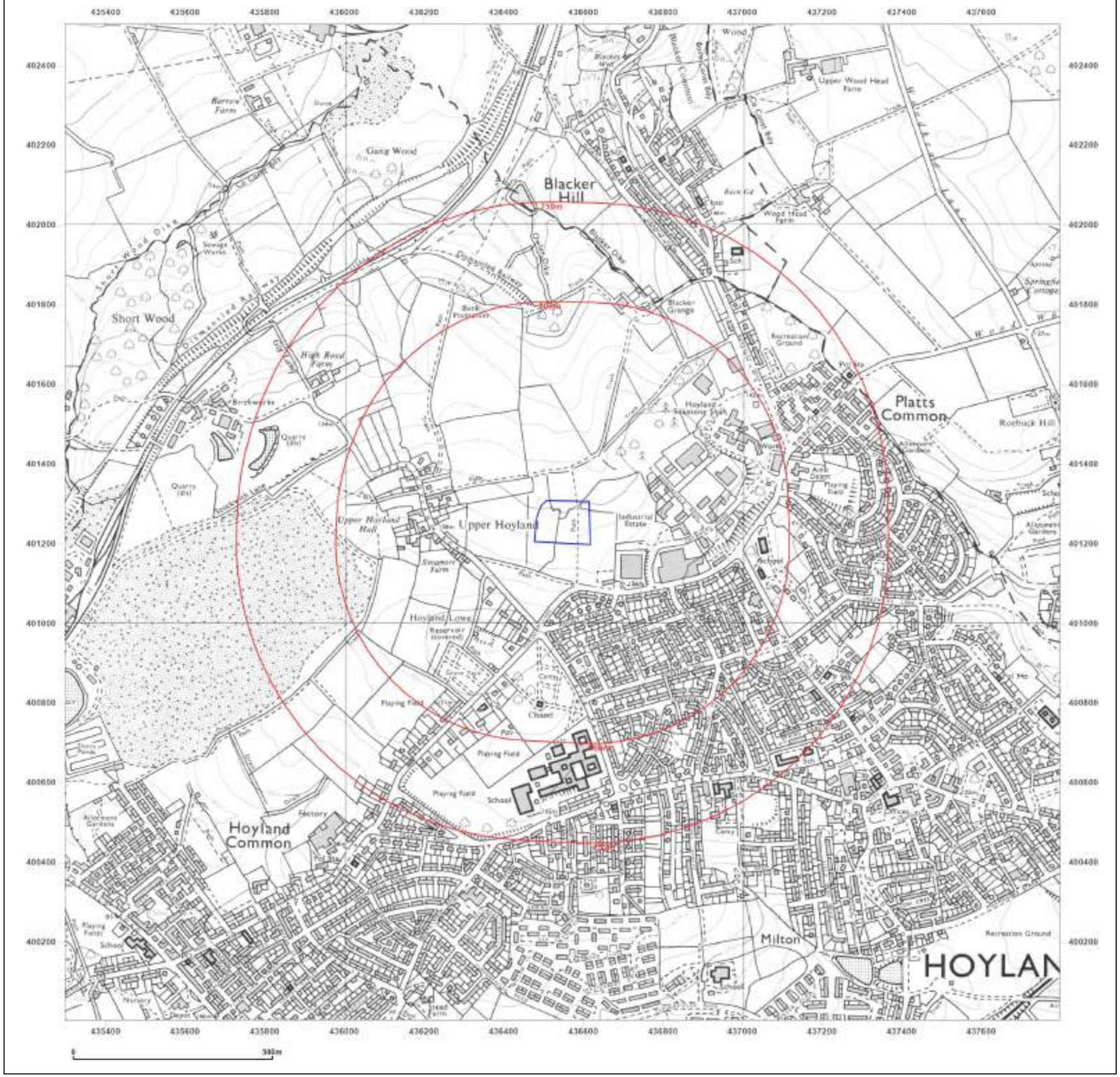
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Site Details:

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PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid

Map date: **1977**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1976
Revised 1977
Edition N/A
Copyright 1978
Levelled 1978

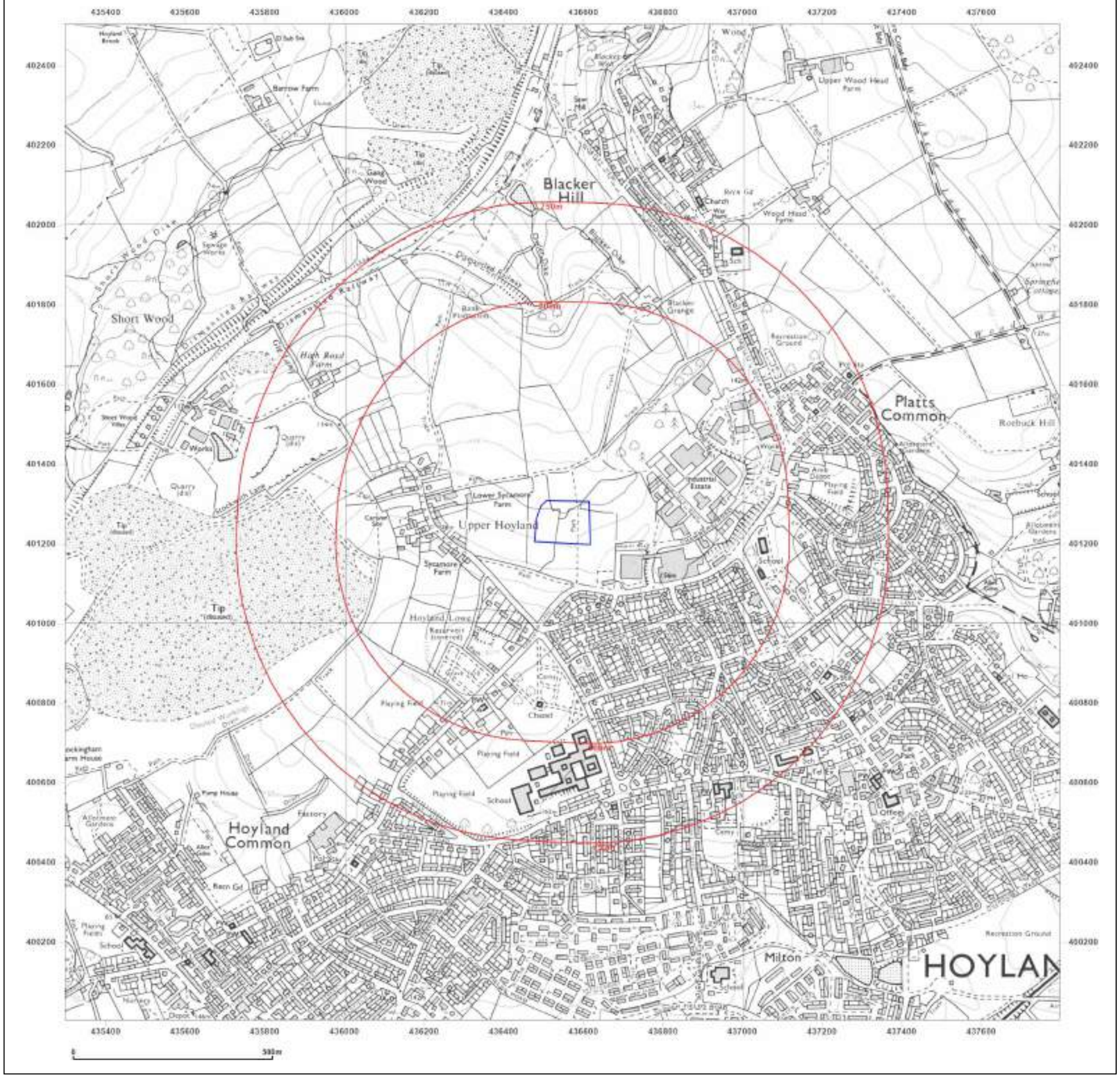
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Site Details:

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PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid

Map date: **1987**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1986
Revised 1987
Edition N/A
Copyright 1988
Levelled 1978

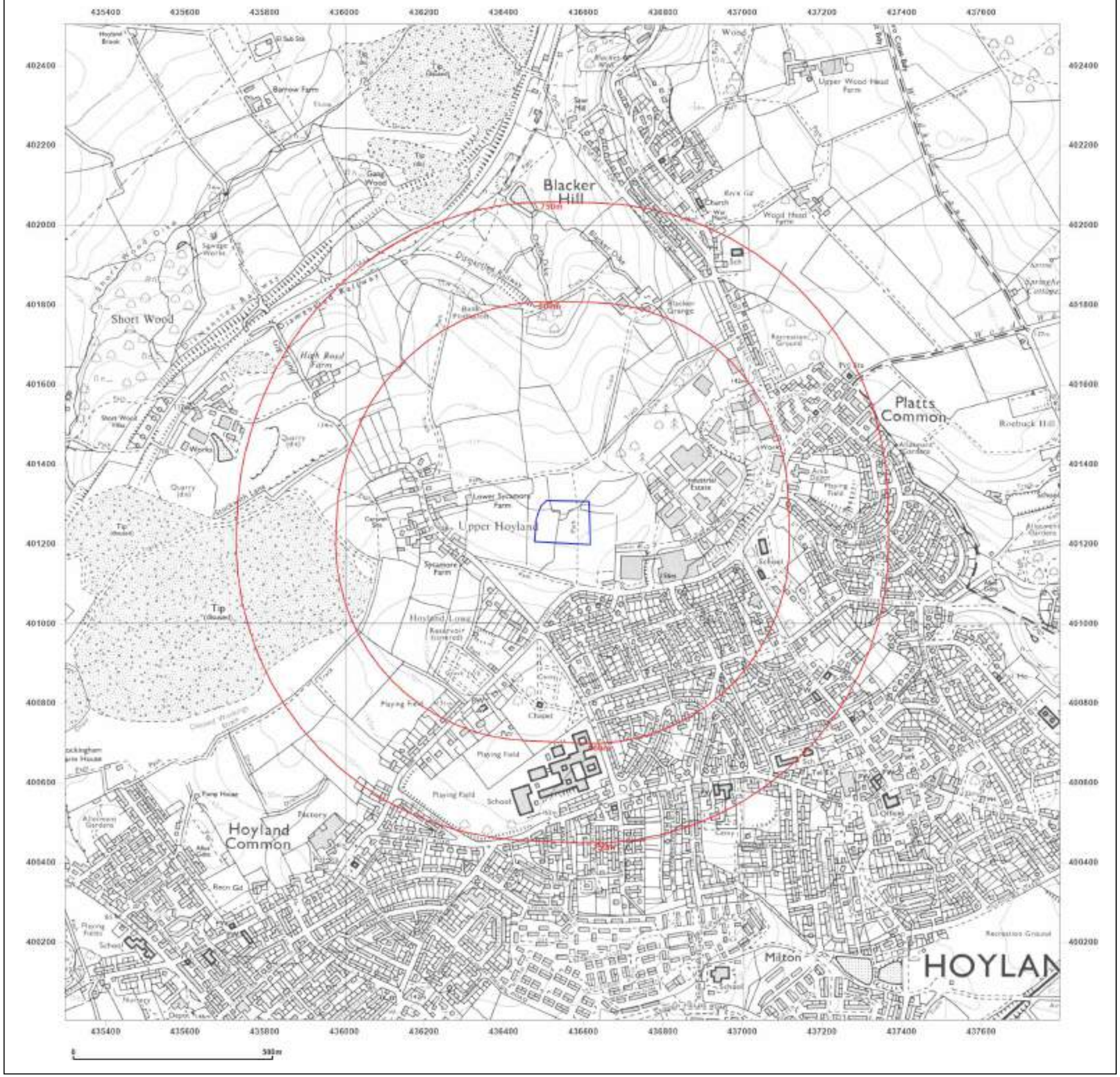
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Site Details:

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PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid

Map date: **1987**

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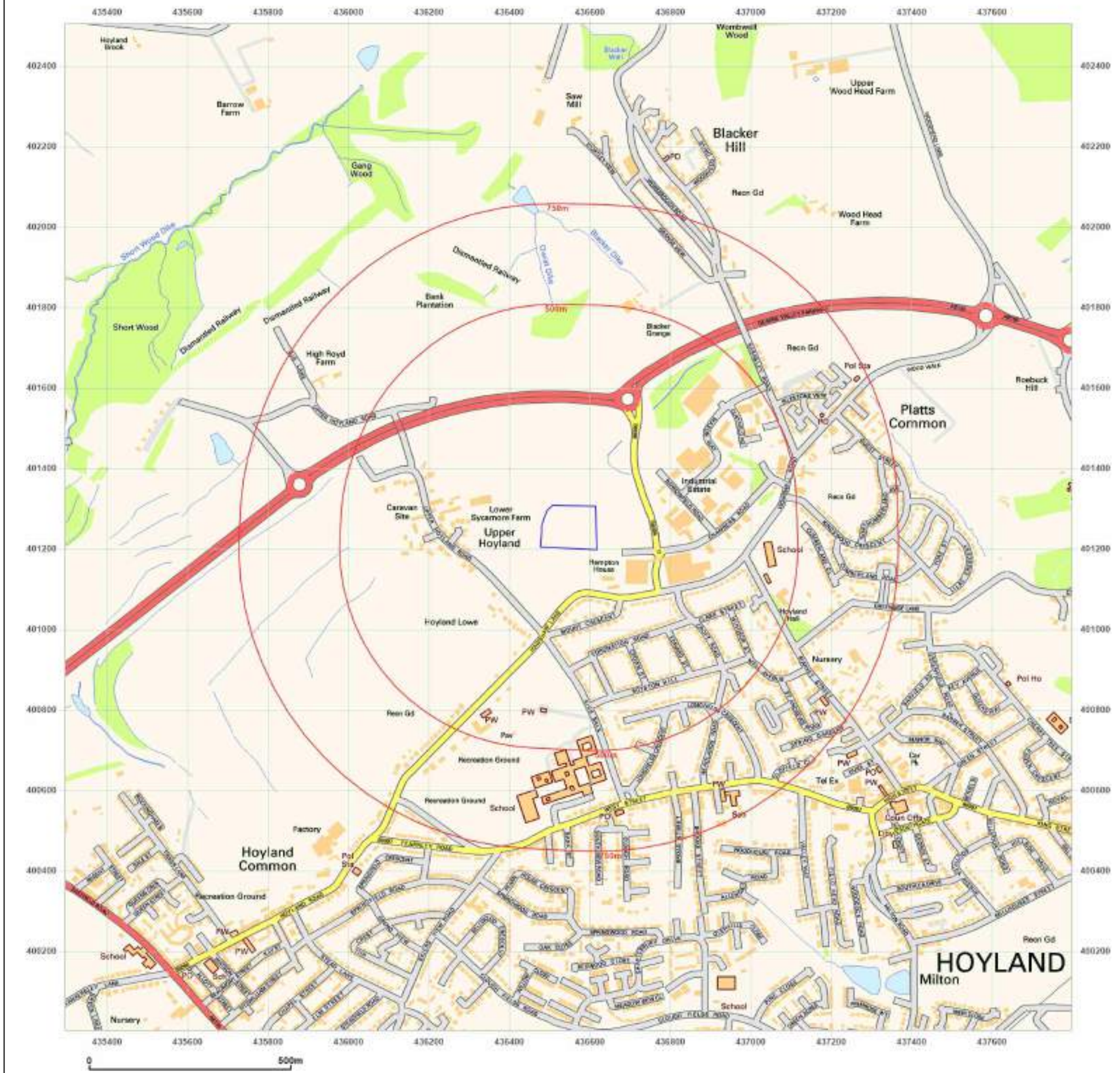
Surveyed 1986
Revised 1987
Edition N/A
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Site Details:

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PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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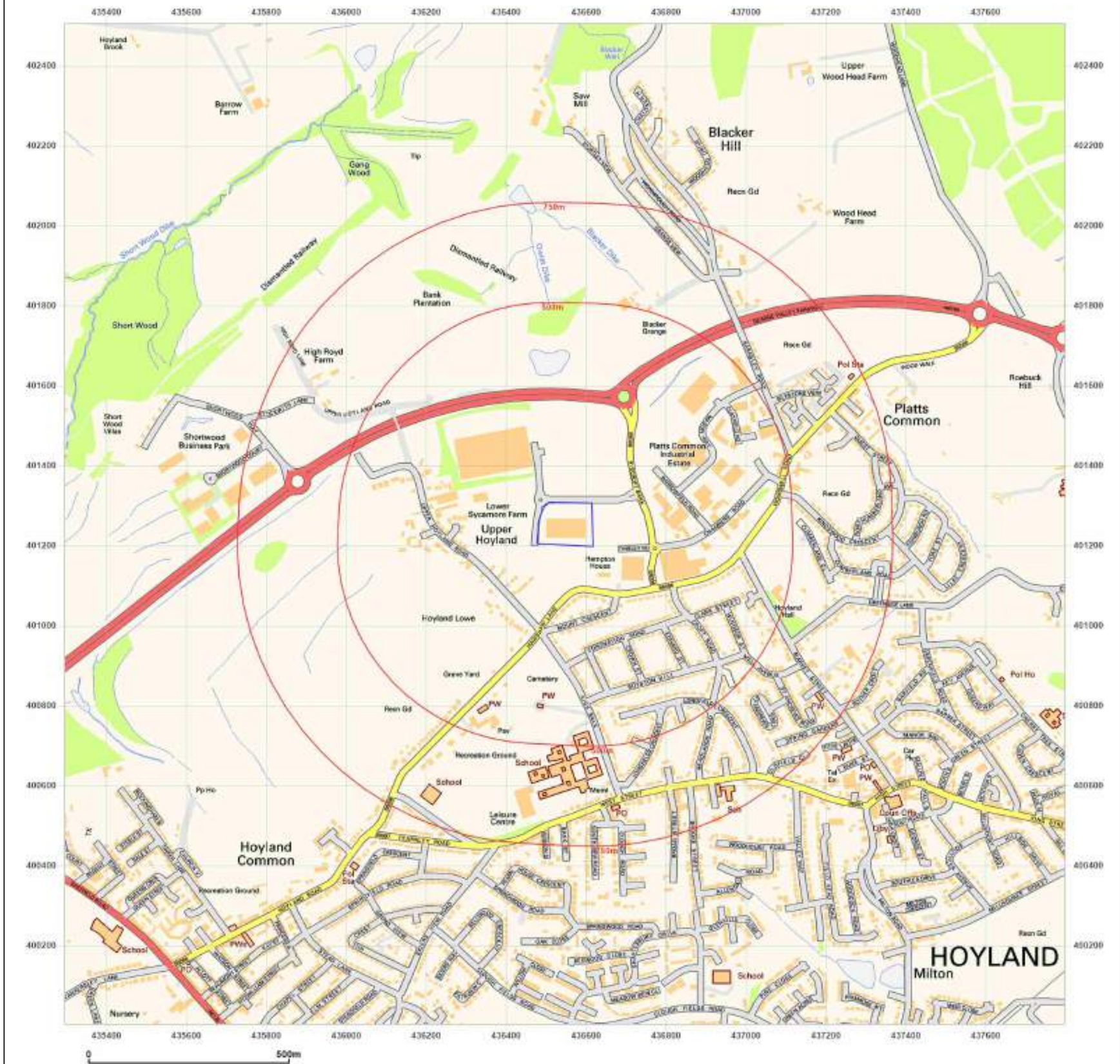
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Groundsure INSIGHTS

Site Details:

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PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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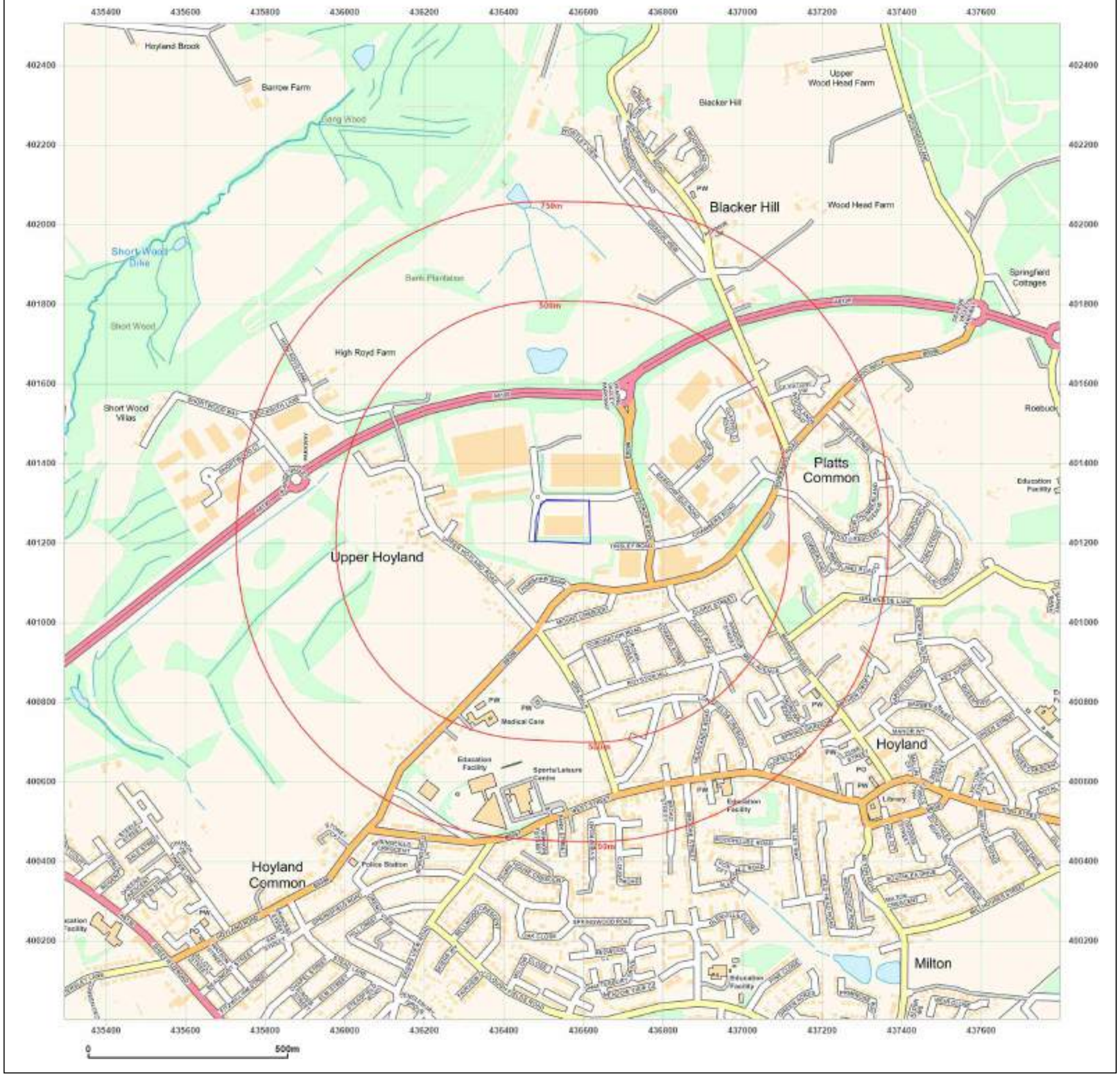
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Site Details:

UNIT 5C, ASHROYDS WAY,
PLATTS COMMON, BARNSLEY,
S74 9SB

Client Ref: 22229-G-01
Report Ref: GS-9136456
Grid Ref: 436547, 401254

Map Name: National Grid
Map date: **2022**
Scale: 1:10,000
Printed at: 1:10,000

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Appendix D
Coal Authority Mining Report

The Coal Authority

CON29M
coal mining report

ASHROYD BUSINESS PARK, ASHROYDS WAY, PLATTS COMMON, BARNSLEY S74 9SB

Known or potential coal mining risks

Past underground coal mining	Page 3
Future underground coal mining	Page 3
Withdrawal of support	Page 5

Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit www.groundstability.com

Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is **on the coalfield**

Map data

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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Detailed findings

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1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 9 seams of coal at 110m to 460m depth, and last worked in 1976.

Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 Coal mining subsidence

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

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

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

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

The property is in an area where a notice to withdraw support was given in 1975.

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

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.
www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call 0800 288 4242. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary

Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

Appendix E
Risk Evaluation

Risk Evaluation

To ensure consistency in our qualitative method for risk evaluation we have used the classification scheme presented CIRIA C552 Contaminated Land Risk Assessment – A Guide to Good Practice, 2001. The overall risk rating for any potential pollutant linkage is set out in **Table I** and based upon a combination of the:

- Magnitude of the potential consequence (severity) of risk occurring (defined in **Table II**); and
- Magnitude of the probability (likelihood) of the risk occurring (defined in **Table III**).

The definition of the overall risk rating and likely action required is defined in **Table IV**.

Table I: Comparison of consequence against likelihood

		Consequence (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 II: Classification of Consequence (Severity)

Class[n]	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in significant harm. Short term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short term risk to a particular ecosystem, or organism forming part of such ecosystem.	• High concentrations of cyanide on the surface of an informal recreation area. • Major spillage of contaminants into controlled water. • Explosion, causing building collapse (can also equate to a short term human health risk if buildings are occupied).
Medium	Chronic damage to human health. Pollution of sensitive water resources. A significant change in a particular ecosystem, or organism forming part of such an ecosystem.	• Concentrations of a contaminant from site exceed the generic, or site specific assessment criteria. • Leaching of contaminants from site to an aquifer. • Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings/ structures/ services or the environment.	• Pollution of non-classified groundwater. • Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by PPE). Easily repairable effects of damage to buildings, structures and services.	• The presence of contaminants at such concentrations that PPE is required during site works. • The loss of plants in a landscaping scheme. • Discoloration of concrete.

Table III: Classification of Likelihood (Probability)

Class[n]	Definition
High likelihood	There is a pollution linkage and an event that either appears 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 a pollution linkage and all the elements are in the right place, which means that it is probable that an event will occur.
Low likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

Table IV: Classification of risks and likely action required

Class[n]	Definition
Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realized, is likely to result in a substantial liability. Urgent investigation and remediation works are likely to be required.
High risk	Harm is likely to arise to a receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realized, would at worst normally be mild.
Very low risk	There is a low possibility that harm could arise to a receptor. In the vent of such harm being realized it is not likely to be severe.

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