

Phase I Coal Mining Risk Assessment

Premier Inn, Maple Road, Tankersley, Barnsley,

S75 3DL

CRM.1483.056.GE.R.001.A

'Experience and expertise working in union'

enzygo.com

Contact Details:

Enzygo Geoenvironmental Ltd. (Bristol Office)
The Byre
Woodend Lane
Cromhall
Gloucestershire
GL12 8AA

tel: 01454 269237
email: steve.rhodes@enzygo.com
www: enzygo.com

Coal Mining Risk Assessment

Project:	Premier Inn, Maple Road, Tankersley, Barnsley, S75 3DL
For:	Whitbread PLC
Ref:	CRM.1483.056.GE.R.001.A
Status:	Final
Date:	June 2024
Author:	Richard Hamilton **Director of Geoenvironmental**
Reviewer:	Steve Rhodes **Director**

Disclaimer:

This report has been produced by Enzygo Geoenvironmental Limited within the terms of the contract with the client and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client, and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

Enzygo Limited Registered in England No. 6525159 Registered Office Stag House Chipping Wotton-Under-Edge Gloucestershire GL12 7AD

Contents

1.0INTRODUCTION 1

1.1 Background 1

1.2 Proposed Development 1

1.3 Objectives 1

2.0SITE SETTING 2

2.1 Current Site Description 2

2.2 Surrounding Area 2

3.0SITE HISTORY 3

3.1 Historical Maps 3

4.0ENVIRONMENTAL SETTING 6

4.1 Ground Conditions 6

4.2 Natural Hazards Finding 6

4.3 Coal Mining 7

4.4 Non-Coal Mining and Cavities 7

4.5 Natural Cavities 7

4.6 Ground Workings 7

5.0COAL MINING RISK ASSESSMENT 9

5.1 General 9

5.2 Coal Authority Viewer 9

5.3 Coal Authority Report 9

5.4 Conclusion 15

6.0PRELIMINARY GEOTECHNICAL RISK ASSESSMENT 17

6.1 General 17

Tables and Figures

Table 2.0 Site Description 2

Table 2.2.1 Land Use Surrounding the Area 2

Table 3.1.1 Historical Maps 3

Table 4.1.1 Geological Sequence 6

Table 4.1.5 Borehole Records 6

Table 4.2.1 Natural Hazards 7

Table 5.3.3 Past underground workings 9

Table 5.3.4 Extracts from Coal authority interactive website (coal workings underneath the site) 10

Table 5.3.8 Mine shafts 11

Table 5.3.11 Mine shaft records 12

Table 5.3.13 Opencast works extent plan 13

Table 5.3.15 Photographic records 14

Table 5.3.16 Additional Photographic records of opencast workings 15

Table 5.4.3 Coal seam risk classification – summary table 16

Table 6.1.1 Risk assessment Criteria and rating 17

Table 6.1.2 Preliminary Geotechnical risk Register 18

Drawings and Appendices

Drawings 20

Appendix 1 – Desk Study Assessment 21

Appendix 2 – Mining Reports 22

Appendix 3 – BGS Borehole Logs for the area 23

1.0 INTRODUCTION

1.1 Background

1.1.1 Enzygo Geoenvironmental Limited has been commissioned to prepare a Coal Mining Risk Assessment in support of a planning application at the Premier Inn, Maple Road, Tankersley, Barnsley, S75 3DL.

1.2 Proposed Development

1.2.1 The existing site comprises a Premier Inn Hotel and Brewers Fayre restaurant with associated car parking and soft landscaping. The proposed development comprises an extension/annex to the existing hotel together with car parking and soft landscaping to the south east of the hotel.

1.2.2 The proposed development is shown on Drawing P11079 – SK998 prepared by Allison Pike Architects. A copy is included within the Drawing Section of this report.

1.3 Objectives

1.3.1 The objectives of the study are to:

- Obtain desk study information, a copy of which is included within Appendix 1;
- Obtain a coal mining report, a copy of which is included in Appendix 2;
- Assess the implications of any potential geotechnical issues is relation to the site and any historically mining; and
- Provide a report relating to the Geotechnical and mining risks.

2.0 SITE SETTING

Table 2.0 Site Description

Item	Description
Site Address	Premier Inn, Maple Road, Tankersley, Barnsley, S75 3DL
National Grid Reference	433546 399070

2.1 Current Site Description

2.1.1 The site of the proposed annex/extension site is currently occupied by car parking surrounded by soft landscaping comprising a grassed area and hedging with scattered mature trees in the soft landscaping areas.

2.1.2 The main hotel buildings comprise a two-storey building and is located to the north west of the site.

2.1.3 The hotel has previous been extended to the north west of the hotel and out of the northern wall of the previous hotel.

2.1.4 An area of low growing hedges is located immediately to the south east of the hotel and divides the existing hotel and the proposed annex.

2.1.5 A proposed link from the southern eastern wall of the existing hotel will connect into the proposed annex.

2.1.6 Mature trees were noted on the southern boundary of the hotel site and some 50m away from the proposed annex site.

2.1.7 The proposed extension is located to the south east of the existing hotel and is occupied by car parking and areas of soft landscaping vegetated with bushes, grass and occasional mature trees.

2.2 Surrounding Area

2.2.1 Land uses surrounding the site are summarised as follows:

Table 2.2.1 Land Use Surrounding the Area

Direction	Land Use
North	Hotel building, and Restaurant buildings with commercial units beyond.
South	Grass Mature Trees (Hotel Boundary) and A616 and open ground including grass and trees beyond.
West	Hotel Car Park, Trees (Hotel Boundary), and A616 and Tankersley Diner beyond.
East	Car park, open space (Hotel Boundary) Maple Road, McDonalds and roundabout beyond.

2.2.2 There is no evidence of ground workings on or adjacent to the site, however given the generally level development site some cut and fill operations and therefore Made Ground will be present.

3.0 SITE HISTORY

3.1 Historical Maps

3.1.1 A review of historical Ordnance Survey maps and information pertinent to the site and within a 250m radius is summarised below:

Table 3.1.1 Historical Maps

Potentially Contaminative Historical Land Use		
Map Edition	**Site**	**Surrounding Area**
1855	Open field site	Sowell wood is shown 50m N and NW. West Wood 90m S and SW. Iron stone pit 150 to 180m SE. Sandstone and ironstone pit 250m NE. Westwood Colliery 279m S to include ironstone pit shaft and railway connecting into the mainline 550m SE.
1893-1894	Open field site	Westward colliery is not shown and all that remains is pit/pond and old shaft. All the infrastructure and structure for the colliery are not shown. By 1894 ponds 80m, 90m and 140m N and Air shafts and pit 120m S associated with the coal workings from (Wharncliffe Silkstone colliery 800m NE and Tankersley colliery 500m SE) . Old ironstone pit 180m SE. Old pit and shaft 200m to 270m S. Old shafts shown in Sowell wood 150m NE and 130m NE. Further air shafts 220m E and old shafts 220m NE. Woodburn Junction railway 200m E. Sowell railway Bridge 220m E. Earthworks 20m E and 100m S (Possible former colliery railway or embankment or spoil heap.
1903	No changes	Additional earthworks shown 220 to 250m N and NE. Additional pond/reservoir/20m N.
1929- 1948	No changes	Westward Main road 250m E to 90m S and 250m S. Two more additional ponds/reservoirs 220m NE and 270m NE.
1956	Site has been regraded and infilled.	Sowell Wood has been removed as part of the infilled exercise . Part of West Wood has alos been removed as part of the infill exercise. The majority of the air shafts and pits recorded in 1855 and 1893 have been infilled. One remaining air shaft is shown 220m NE and a second old shaft 120m SE. Road relabelled as A61 and the bridge has been widened over railway. All the historical ponds and reservoirs minus the pond 270m NE have been infilled as part of the infilling and regrading exercise.
1966	No changes.	Earthworks 20m E infilled.
1980-1981	No changes.	Railway is shown as dismantled. Industrial units shown E of railway. 270m NE.
1992	Site is shown as reprofiled and shows topographical levels on the site.	A616 is shown 20m S on embankment. This connects into roundabout with A61. Drain and excavation (possibly related to the road and roundabout drainage surface water drainage basin.)
1999 to 2003	Hotel Car park and landscaping.	Hotel buildings 20m N. Restaurant 45m NE. filing station 100m NE.

2009-2018	No significant changes.	Hotel building 20m N has been extended 50m NW. Commercial buildings 50m N to 100m N.
2021	No significant changes.	Further Commercial buildings 150m N.
2024	No significant changes.	No significant changes.

3.1.2 Historic shafts are identified in the surrounding area associated with the coal outcrop and coal workings underneath the site. Historically collieries and iron workings are shown in the area surrounding the site.

3.1.3 The coal legacies are shown via shafts and pits which were worked from the 1850s to 1910. The remaining coal legacy (shallow coal and iron seams) were worked via opencast methods to an estimated depth of 15m by the 1950s whereby these and the previous shafts and pits were infilled to provide the current working platform. As part of the regarding exercise the previous shafts were infilled and/or excavated out.

3.1.4 Commercial development including the road network have been subsequently built on top of regarded infilled formation which were infilled and regraded in the late 1950s.

3.1.5 Based on the above `backfill/ Made Ground / infilling is noted from 1956 across the entire area including the development site. These materials are likely to contain remnant coal materials and also be loosely compacted. The thickness, classification, chemical composition, and compaction characteristics will need to be confirmed via investigation.

4.0 ENVIRONMENTAL SETTING

4.1 Ground Conditions

4.1.1 The British Geological Survey (BGS) indicates that the site is underlain by the following geological sequence:

Table 4.1.1 Geological Sequence

Geological Unit	Type	Descriptions	Aquifer Classification
Drift	N/a	None	N/a
Solid	Pennine Lower Coal Measures Formation -	Mudstone, Siltstone And Sandstone and coal seam	Secondary A

4.1.2 No faults are shown on the site or within 250mm if the site.

4.1.3 BGS records show the site is within an area and published records of infilled ground with worked ground and Made ground to the south east and east.

4.1.4 There are no records of landslips on or near to the site.

4.1.5 A coal seam has been observered on site with a number of coal seams surrounding the site.

4.1.6 There are two viewable BGS boreholes logs on or within the vicinity of the site. Borehole records are available from the BGS, which are included in Appendix 3 and are summarised on the table below:

Table 4.1.5 Borehole Records

Reference	Location	Details
380422	17m N	1.5m of plastic brown clay over gravel to 7.50mbgl over weathered sandstone to 8.78mbgl over sandstone to 12.42m a thin coal seam was encountered at 11.51m (2inch thick). This coal seam is not considered a sufficient risk due to it being thin and non economically to excavate.
380442	36m NE	0.61m of topsoil over fine sand to 1.37m and weathered sandstone and siltstone to 9.45m bgl. Refusal on rockhead at 9.45mbgl. Groundwater at 1.45mbgl/

4.1.7 Both these boreholes were drilled before any infilled materilas and relate to the A616 construction as they were drilled in 1980.

4.1.8 Madeground and superficial a materials were noted to 2.00mbgl below which was sandstone. Coal seams were encountered a depths between 12.00m and 14.00mbgl and were generally 1.50m thick. Made Ground (infilled materilas have been placed on top of these boreholes.

4.2 Natural Hazards Finding

4.2.1 BGS information presented within the Groundsure report identified the following ground conditions:

Table 4.2.1 Natural Hazards

Hazard	Risk Designation (Groundsure)
Shrink Swell	Very Low
Landslides	Very Low
Soluble Rocks	Negligible
Compressible Ground	Moderate
Collapsible Rocks	Very Low
Running Sands	Negligible to very Low

4.2.2 The Moderate compressible risk is associated with the Made Ground infilled materials and will be assessed as part of the invetsigtaion.

4.2.3 No other significant ground hazards are identified.

4.3 Coal Mining

4.3.1 The site is identified as being in a coal mining area and as such a more detailed assessment has been undertaken. This is presented in Section 5.

4.4 Non-Coal Mining and Cavities

4.4.1 There is one Non coal mining activity shown within 500m of the site. This non coal mining activities comprises an ironstone underground mine 109m east. The risk of these underground mine workings affecting the site are discussed in the section below and in the coal assessment. There are six recorded other underground ironstone mines from 500m to 1000m from the site.

4.4.2 The Groundsure GeoInsight report indicates no other significant risk from non-coal mining activities.

4.5 Natural Cavities

4.5.1 No natural cavities are identified below or near to the site.

4.6 Ground Workings

4.6.1 There are a number of previous coal pits within 250m of the site the closest two are 138m north east which is referenced Sowell Pit and 165m north east referenced Catnob Pit. Sowell pit was alos extended to work ironstone. All these pits were wholly underground and accessed via shafts.

4.6.2 A number of surface workings have been idenitfed within 500m of the site including, unspecified heaps are located 8 to 10m east, Ponds 31m to 35m south and more unpsecifed pits 91m to 105m North.

4.6.3 These workings could have been associated with the infilled materilas recorded in sections 4.1.3 and roads and ponds identified in the historically section 3.

4.6.4 A number of underground workings have been idenitfed within 500m of the site. These underground workings comprise disused and unspecified air shafts from 125m to 128m south east, 128 to 214 north east, 221m to 228m south and 215m west.

4.6.5 Other underground ground workings include the collieres and these are referenced 256 to 302m east, 332m north, 669m north, 824 to 852m north west and 921m north. The majority of these are described and dismissed in the historical section 3.0.

4.6.6 Ironstone pits are also referenced as underground workings 727m to 867m south, 814m to 914m west, and 952m to 995m south east and east. The direct risk from these pits is dismissed given the distance to the site.

4.6.7 Some of the workings assoicted with the collieries and ironstone pits are accessed from air shafts and therfore will extend below the site. the workings are initially thought to be deep enough. however further analysis will be undertaken in section 4.0 to confirm this.

4.6.8 Nearest referenced colliery shown as 256m east with associated shafts 708m. This was dismissed in the historical section.

5.0 COAL MINING RISK ASSESSMENT

5.1 General

5.1.1 The Groundsure Geo Insight report indicates the site is located within an area of potential coal mining and a detailed coal mining risk assessment has been undertaken.

5.2 Coal Authority Viewer

5.2.1 The Coal Authority Interactive Viewer shows there are probably underground working underneath the site.

5.2.2 It also shows an outcrop of coal to the north (35m north which dips to the north west at 283 degrees) away to the north east of the site. This outcrop and the probably underground workings are also shown in a high risk development area.

5.2.3 In addition, the coal workings are associated with a number of mine shafts covering the entire Hotel site and the adjacent McDonalds site. The majority of the shafts follow the position of the outcrop. Further details in relation to the mine shafts are given in the coal mining report and are summarised below.

5.3 Coal Authority Report

5.3.1 A Coal Authority Report has been obtained for the development site. A copy of this report is included in Appendix 2. Results are summarised below:

5.3.2 The Coal Mining report identifies past mining recorded on the development site associated with three seams (Thorncliffe which is 40m deep, the Silkstone with in 110m deep and the Whinmoor with is 161m deep). The thickness extracted ranges from 68cm to 170cm and they all dip to the north east and east at shallow angles up to 7 degrees and away from the development site. All the seams have been worked underneath the site from 1875 to 1920 and the extent is shown on the interactive website. Other worked seams are referenced in the area however these are all deeper and to the south of the development site. (110m to 161m deep).

5.3.3 The full list of worked seams is given below and within the coal mining report in Appendix 2.

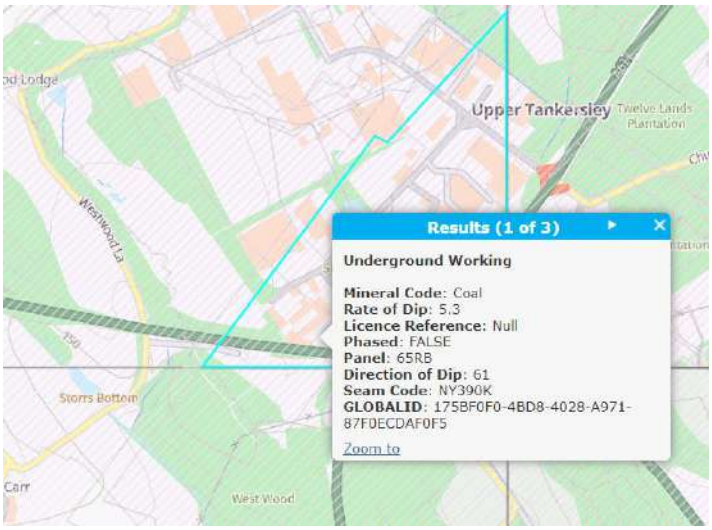
Table 5.3.3 Past underground workings

Past underground mining

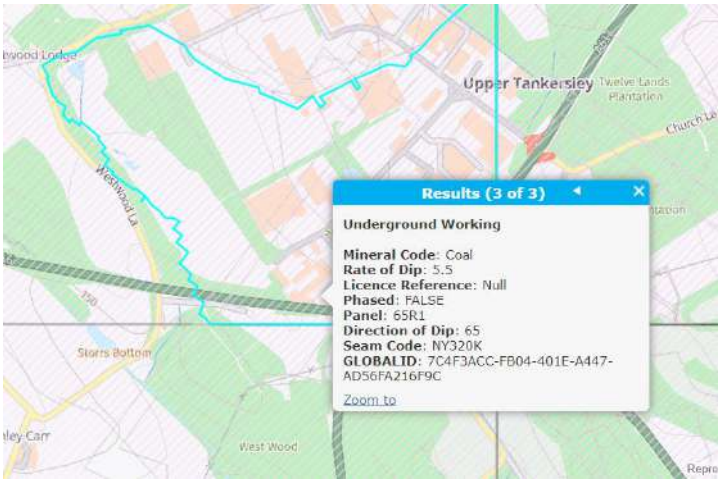
Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
TANKERSLEY	THORNCLIFFE	Coal	65R1	40	Beneath Property	5.5	North-East	68	1887
TANKERSLEY	SILKSTONE	Coal	6IYD	110	South	6.8	North-East	170	1856
unnamed	SILKSTONE	Coal	65RL	114	Beneath Property	5.2	East	170	1875
TANKERSLEY	WHINMOOR	Coal	6IYC	158	South	5.7	North-East	81	1922
TANKERSLEY	WHINMOOR	Coal	65RB	161	Beneath Property	5.3	North-East	74	1920

5.3.4 The extent of these workings is shown in the interactive coal authority website and extracts below indicate the extent of the three sets of works.

Table 5.3.4 Extracts from Coal authority interactive website (coal workings underneath the site)







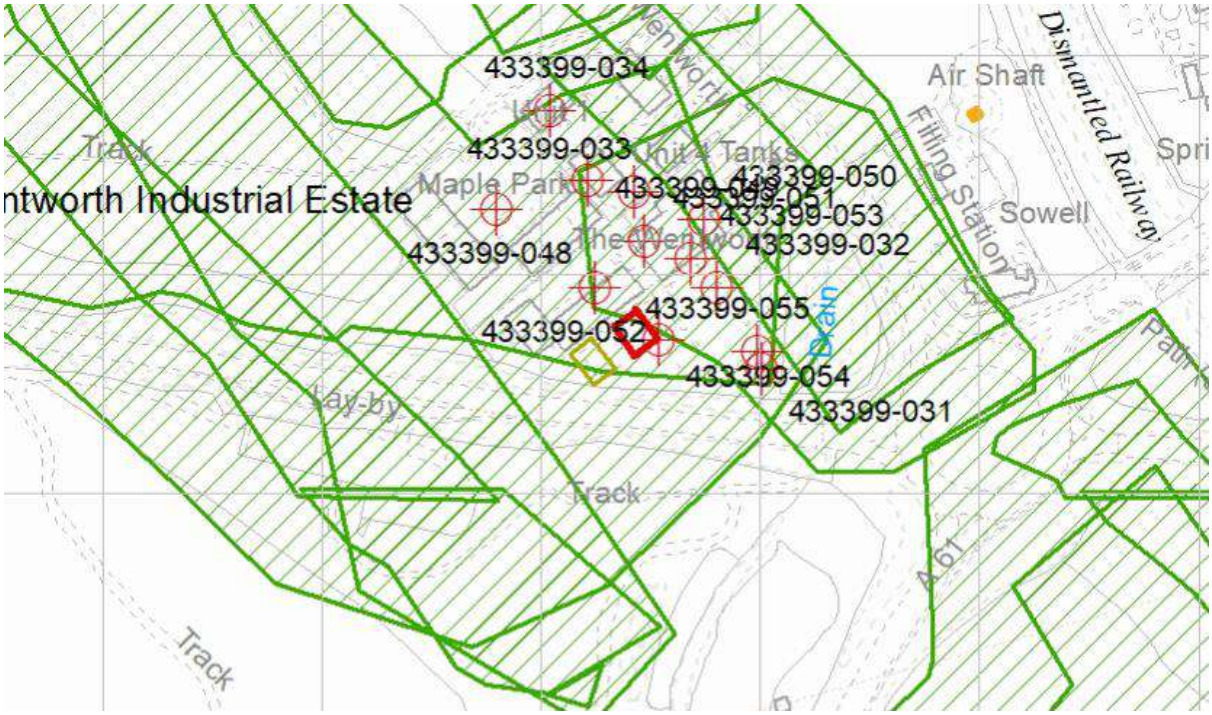
5.3.5 No spine roadways recorded at shallow depth.

5.3.6 No unrecorded shallow workings are encountered.

5.3.7 The coal mining report has recorded no probable un recorded shallow working.

5.3.8 There are a number of mine shafts recorded within the area of the site with one shaft recorded in the south eastern corner of the development site as shown in the plan below and within Appendix 2.

Table 5.3.8 Mine shafts



5.3.9 This shaft within the site development boundary is referenced as 433399-052 as is shown as being excavated as part of the later opencast mining.

5.3.10 The second closet mine shaft which is also located underneath the existing hotel building to the north west of the development area is referenced as 433399-48 and is also shown as excavated as part of later opencast mining.

5.3.11 Detailed shaft records are given below and in Appendix 2.

Table 5.3.11 Mine shaft records

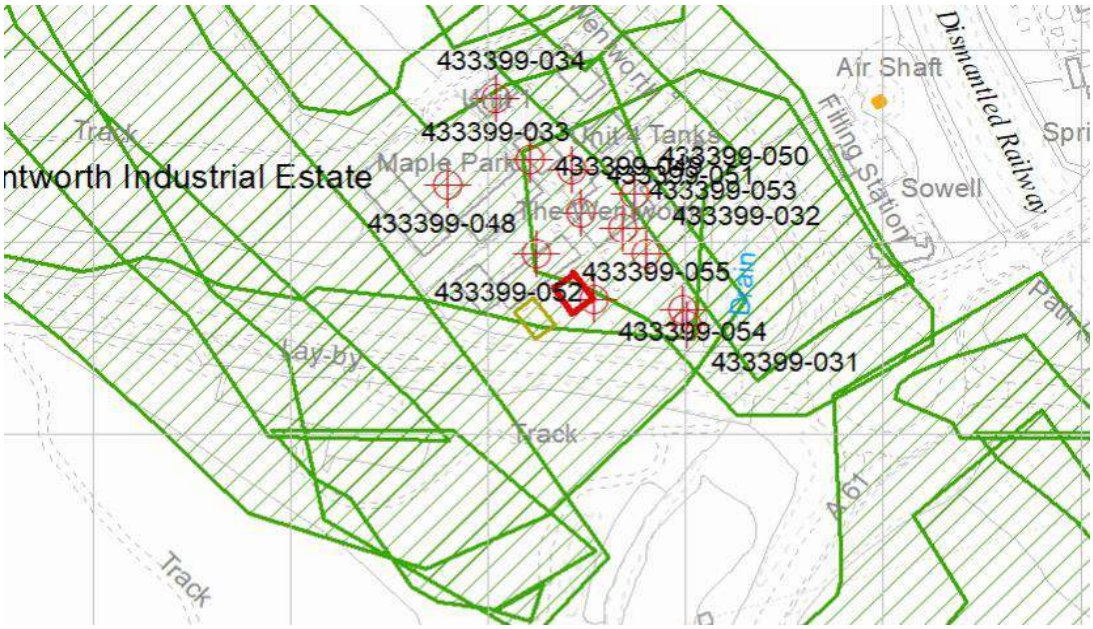
Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	433399-031	433601 399057	Has been filled to an unknown specification and has probably been removed to some extent by opencast mining.	Coal	
Shaft	433399-032	433581 399094	Has been filled to an unknown specification and has probably been removed to some extent by opencast mining.	Coal	
Shaft	433399-033	433543 399137	has been filled to an unknown specification and has probably been removed to some extent by opencast mining	Coal	
Shaft	433399-034	433505 399174	has been filled to an unknown specification and has probably been removed to some extent by opencast mining	Coal	
Shaft	433399-048	433480 399129	Has been excavated by opencast mining	Coal	
Shaft	433399-049	433522 399142	has been excavated by opencast mining	Coal	
Shaft	433399-050	433575 399124	has been excavated by opencast mining	Coal	
Shaft	433399-051	433548 399114	has been excavated by opencast mining	Coal	
Shaft	433399-052	433525 399093	has been excavated by opencast mining	Coal	
Shaft	433399-053	433569 399106	Has been excavated by opencast mining.	Coal	
Shaft	433399-054	433554 399069	Has been excavated by opencast mining.	Coal	
Shaft	433399-055	433599 399065	Has been excavated by opencast mining	Coal	

5.3.12 There are no recorded faults, fissures and breaklines.

5.3.13 There are a number of opencast records across the development site and wider area. The extent of the opencast workings is given in Appendix 2 and below which shows multiple phases (shown by green shading on plan below) of opencast across the site and wider area with a possible high wall of one of these phases crossing the northern part of the development area.

Table 5.3.13 Opencast works extent plan



5.3.14 The opencast workings are supported by the historical OS plans however the initial deep coal workings pre date the first edition OS historical plans with the earliest large scale plan recorded is 1893. Within the first edition OS plan the shafts are refenced as old shafts and old groundworks and earthworks. The old shafts and workings are located in the former Sowell wood which by 1948 some are referenced as ponds and by 1956 have been removed and infilled.

5.3.15 Based on this it would appear that the opencast workings were dated between these two dates (1948 and 1956) however the depth of these opencast workings is still unknown.

5.3.16 Photographic evidence referenced by the BGS indicates that the adjacent Sowell wood opencast works extents to an estimated 46ft (14mbgl). This links in closely with the estimated depth of the rock head depths from the BGS borehole logs (Appendix 3). The photographs also appear to show the removal of rock and the engineer in the photograph is pointing at the Middle Fenton coal seam. The coal seams referenced in this photograph are referenced as the Low to High Fenton coal seams. None of the seams referenced above include the ironstone seam known as the Black mine which had have been worked previously. A photograph and description of the open cast rock face is given below.

Table 5.3.15 Photographic records



Looking north at Sowell Wood opencast site, 360 yd. W. 40 degrees N. Sowell Bridge. Old underground ironstone workings. The face of the cut shows, beneath a cap of soil: 25 feet sandstone; 10 feet mudstone; 5 feet High Fenton Coal (including dirt partings); 2 feet 9 in. old ironstone workings completely filled by broken rock; 1 foot 3 in. hard ironstone unworked; 1 foot Middle Fenton Coal; 2 feet mudstone; 2 feet 9 in. Lower Fenton Coal. The dark-coloured band on which the engineer's hand is resting is the Middle Fenton. None of the coals had been worked. The Fenton seam consists of several thin coals with dirt and shale partings though over most of the area they are two seams known as the Low and High Fenton coals. The main parting between them often contains ironstone and is known as the Black Mine. The other two main ironstone beds are the Claywood Ironstone just above the Silkstone Coal and the Tankersley Ironstone a few feet above the Flockton Coal.

5.3.17A further photograph referenced Sowell Bridge works and to the east of the development site given below shows the extent of the open cast workings in the area prior to being restored to its current level. (See below).

Table 5.3.16 Additional Photographic records of opencast workings



Looking north-east at Sowell Wood opencast site, 830 yd. W. 46 degrees N. Sowell Bridge. A worked-out site before restoration. The general view shows an opencast site after the coal has been worked out and the cuts filled but before levelling of the surface has commenced. Beyond the site is Wharncliffe Silkstone Colliery. The prominent heap by the colliery is the tip of material from underground workings. The Silkstone coal is one of the three primary seams worked in the Barnsley area, the other two are the Barnsley and the Parkgate. The basic method of working was by removing the overburden in a series of cuts 40 feet wide parallel to the outcrop edge. Overburden was removed using a variety of equipment and methods e.g. scrapers, tractor/scrapers and dozers, high-lift shovels and draglines. The development of coal mining in the Barnsley area has been largely dependant on the working of three seams, the Silkstone, Parkgate and the Barnsley coals.

5.3.18 The Coal Authority confirms that it has not received damage notice or claim for the property or within 50m.

5.3.19 There are no records of preventative works having been undertaken.

5.3.20 Mine gas has been recorded in the area and subsequential investigated and reporting following specific reported hazards.

5.3.21 No coal mining licenses within 200m of the site.

5.4 Conclusion

5.4.1 Based on the geological maps, the findings of the Coal Authority Report, together with the BGS boreholes logs and the BGS photographic records the risk associated with the coal workings are associated with the workings underneath the site at 40m depth and the mine shaft being in the

south east corner of the site. The conclusions also confirm the opencast works cover the entire area and have excavated out the mine shaft in the development area to an estimated depth of 14m. In the process of removing the open cast materials the High, Middle and Low Fenton Seams were also excavated together with the ironstone seams referenced as The Black Mine. Based on this all the shallow seams have been removed leaving the shallowest underground worked seam at 40m bgl

5.4.2 Based on the geological borehole records for the area the sandstone is shown at depths ranging from 8.78 to 9.45m bgl and a shallowest coal and ironstone seams up toa depth of 14m bgl have been excavated out as part of the opencast works.

5.4.3 The conclusions drawn from the above evidence and the mining report indicates that there is more than 10x seam thickness of solid rock cover. This conclusion is summarised in the table below which summarises all the information obtained from the BGS boreholes logs, BGS geoscience photographic records and the Coal mining report.

Table 5.4.3 Coal seam risk classification – summary table

Coal Seam referenced below the site	Depth of competent bedrock (mbgl)	Depth of seam (mbgl)	Seam thickness (m)	Rock cover thickness (m)	Ratio of competent rock verse seam thickness	More than 10x seam thickness	Risk classification
Unknown coal seam (BGS BH logs)	9.45	12.15	0.05m	0	N/a	N	No coal related risk due to seams have been worked out via opencast workings.
Fenton coal seams and the black beds ironstone seams	14.00 as backfill materials above this depth currently.	9.45 to 14.00	0.3-1.5	0	N/a	N	No coal related risk due to seams have been worked out via opencast workings.
Thorncliffe	14	40	0.68	28	41X	Y	No coal legacy risk to current site.
Silkstone	74.7	114	1.7	39.3	23X	Y	No coal legacy risk to current site.
Whinmoor	76.4	161	0.74	84.6	114X	Y	No coal legacy risk to current site.

6.0 PRELIMINARY GEOTECHNICAL RISK ASSESSMENT

6.1 General

6.1.1 A preliminary geotechnical risk register has been produced for the proposed scheme in order to identify potential hazards, the probability of the hazard occurring, impact and risk rating. This geotechnical register reflects the current situation on site and should be used to confirm where the current risks are. It is a very simple qualitative risk assessment and should not be viewed as definitive. This risk assessment reflects the current level of understanding of the geotechnical aspects of the scheme and will be subject to revision. It is a generalised risk register that covers all of the main risks.

Table 6.1.1 Risk assessment Criteria and rating

Risk rating (R) = Probability (P) x Impact (I).

Risk Assessment Criteria and Rating			
Probability (P)		**Impact (I)**	
Very likely	5	Very high	5
Probable	4	High	4
Possible	3	Medium	3
Unlikely	2	Low	2
Negligible	1	Very Low	1
Risk Rating (R) = Probability X Impact			
Low 1-8	Medium 9-15	High 16-25	

Table 6.1.2 Preliminary Geotechnical risk Register

Table 6.1.2: Geotechnical Risk Register (existing conditions)						
Hazard / Risk	Cause	Consequence(s)	Pre-Control			Mitigation
			P	I	R	
Ground collapse from Coal mining or workings collapse	Potential for shallow coal seams and workings	Local collapse - Damage to proposed property - Potential cost of remedial measures - loss of life - effects on neighbouring properties & infrastructure	1	4	4	Shallow coal mining identified below the site have been worked using opencast methods. Confirmation Investigation works to confirm dismissed risk (2 holes to 40m depth recommended)
Ground collapse from Coal mining or workings collapse	Void migration and collapsing of shallow workings	Local collapse - Damage to proposed property - Potential cost of remedial measures - loss of life - effects on neighbouring properties & infrastructure	1	4	4	Shallow coal mining identified below the site have been worked using opencast methods. Therefore no void migration anticipated. Deeper workings in excess of 10X seam thickness. No coal legacy risk to the site. Confirmation Investigation works to confirm dismissed risk (2 holes to 40m depth recommended).
	Foundation collapse		1	4	4	No shallow coal mining identified below the site which has not been excavated out as part of the opencast workings. In excess of 10X seam thickness for deep coal seams so risk dismissed. Confirmation Investigation works to confirm dismissed risk (2 holes to 40m depth recommended)
Mine shaft(s)	Void migration and collapsing of shallow mine shaft in development area	Local collapse - Damage to proposed property - Potential cost of remedial measures - loss of life - effects on neighbouring properties & infrastructure	1	4	4	Mine shaft identified in development area and surrounded area however removed as part of the opencast works. No future risk.
Unstable and loose ground conditions	Foundation collapse	Local collapse - Damage to proposed property - Potential cost of remedial measures - loss of life - effects on neighbouring properties & infrastructure	4	3	12	Backfill opencast materials identified to estimated minimum depth of 14m. Could be loosely compacted materials with potential voids. Rotary boreholes recommended to prove rock head up to 20m depth. In additional 2 Number confirmation deep rotary boreholes required to 40m depth to dismiss coal risk. .

Unforeseen Ground Conditions	Unforeseen Ground Conditions (e.g. un identified shallow workings Variability in encountered soils and Made Ground associated with landfill.	- potential local collapse via void migration - effects on neighbouring properties & infrastructure - Damage to proposed property - Potential cost of remedial measures	4	3	12	No shallow coal mining identified below the site. No risk from the coal outcrop to the east. Risk associated with the loose or un compacted backfill opencast materials and potential voids within these materials.

Drawings

HATCH LEGEND

- RECEPTION AREA
- BREAKFAST ROOM
- OFFICE
- LINEN STORE
- PLANT ROOM
- PUBLIC HOUSE

Drain

PHD	DRAWN	31/10/23	
DRAWN	REVISION	DATE	VER

PROJECT

PREMIER INN EXTENSION
PREMIER INN SHEFFIELD / BARNSLEY (M1 J36)

TITLE

EXISTING SITE PLAN

SCALE

1:500 @ A3

JOB No	DRAWING No	REV
PI1079	SK1	

ALLISON PIKE

ARCHITECTS & DESIGNERS

7 Buxton Road West, Disley,
Stockport, Cheshire, SK12 2AE.
Website: www.allisonpike.com

Telephone: 01663 763000
Facsimile: 01663 766772
Email: studio@allisonpike.com

© Allison Pike Partnership Limited.

HATCH LEGEND

- RECEPTION AREA
- BREAKFAST ROOM
- OFFICE
- LINEN STORE
- PLANT ROOM
- PUBLIC HOUSE

OPTIONAL PUBLIC HOUSE ADDITIONAL CAR PARKING AREA

Drain

PHD DRAWN	DRAWN REVISION	31/10/23 DATE	VER

PROJECT

PREMIER INN EXTENSION
PREMIER INN SHEFFIELD / BARNSLEY (M1 J36)

TITLE

PROPOSED SITE PLAN
OPTION A

SCALE

1:500 @ A3

JOB No	DRAWING No	REV
PI1079	SK998	

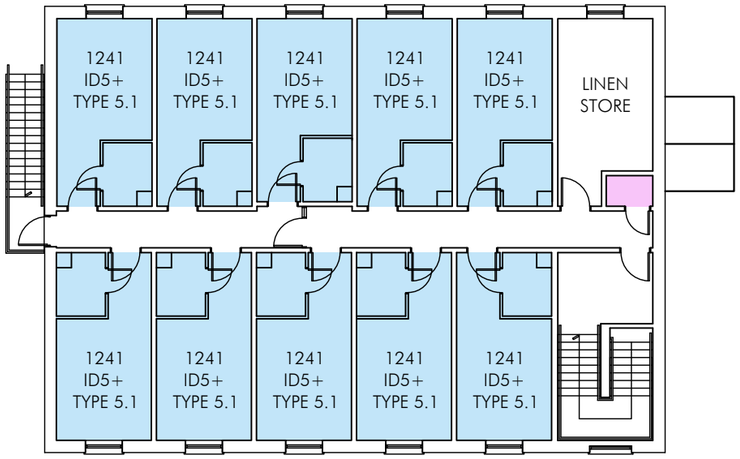
ALLISON PIKE

ARCHITECTS & DESIGNERS

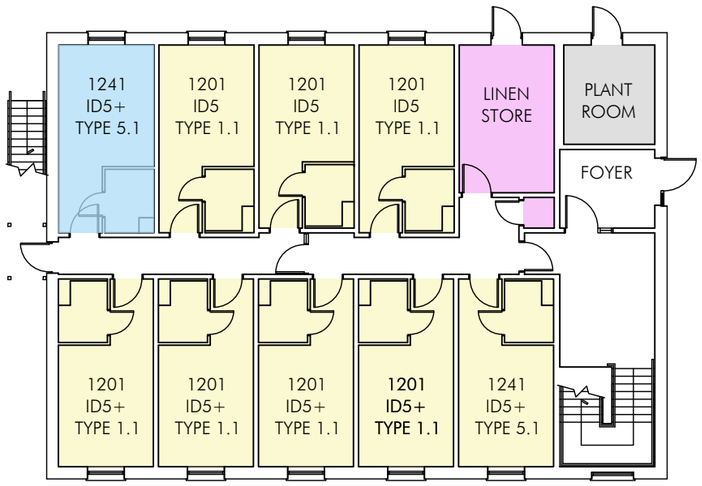
7 Buxton Road West, Disley,
Stockport, Cheshire, SK12 2AE.
Website: www.allisonpike.com

Telephone: 01663 763000
Facsimile: 01663 766772
Email: studio@allisonpike.com

© Allison Pike Partnership Limited.



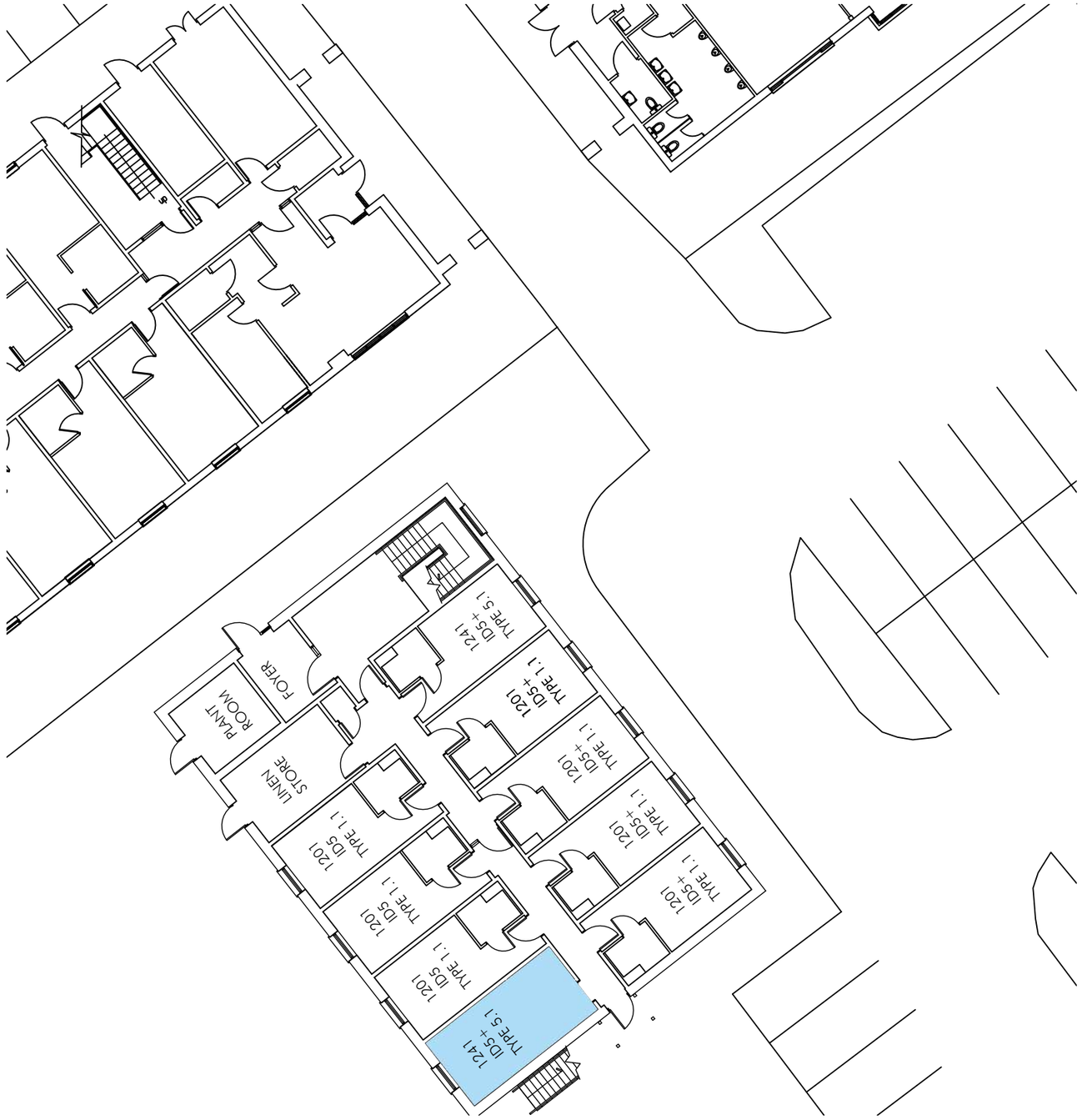
PROPOSED GROUND FLOOR LAYOUT (OPTION A)
SCALE 1:200



PROPOSED GROUND FLOOR LAYOUT (OPTION A)
SCALE 1:200

0 2m 4m 6m 8m 10m 20m

SCALE 1:200 IN METRES



PROPOSED GROUND FLOOR (OPTION A)
ANNEX ENTRANCE LAYOUT
SCALE 1:200

PROPOSED EXTENSION BEDROOM SPLIT

FLOOR	ID5 TYPE 1 (DOUBLE)	ID5 TYPE 1.1 (DOUBLE)	ID5 TYPE 1.2 (DOUBLE)	ID5 TYPE 2 (QUAD)	ID5 TYPE 2.1 (TRIPLE)	ID5 TYPE 3 (TWIN)	ID5 TYPE 4 UA	ID5 TYPE 5 PREMIER PLUS	ID5 TYPE 5.1 PREMIER PLUS	ID5 TYPE 5.2 PREMIER PLUS	ID5 TYPE 6 PREMIER PLUS UA	FLOOR TOTAL
	21.2m2	18.9m2	17.8m2	21.2m2	21.2m2	21.2m2	26.9m2	21.2m2	18.9m2	17.8m2	26.9m2	
GROUND	0	8	0	0	0	0	0	0	1	0	0	9
FIRST	0	0	0	0	0	0	0	0	10	0	0	10
TOTAL	0	8	0	0	0	0	0	0	11	0	0	19
PERCENTAGE	0.0	42.1	0.0	0.0	0.0	0.0	0.0	0.0	57.9	0.0	0.0	100.0

PHD DRAWN | DRAWN REVISION | 31/10/23 DATE | VER

PROJECT
PREMIER INN EXTENSION
PREMIER INN SHEFFIELD / BARNSLEY (M1 J36)

TITLE
PROPOSED GROUND AND FIRST FLOOR PLANS OPTION A

SCALE
1:200 @ A3

JOB No PI1079 | DRAWING No SK999 | REV

ALLISON PIKE
ARCHITECTS & DESIGNERS

7 Buxton Road West, Disley, Stockport, Cheshire, SK12 2AE.
Website: www.allisonpike.com

Telephone: 01663 763000
Facsimile: 01663 766772
Email: studio@allisonpike.com

© Allison Pike Partnership Limited.

Appendix 1 – Desk Study Assessment

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

Premier Inn, Maple Road, Barnsley, S75 3DL

Order Details

Date: 19/06/2024

Your ref: EMS_952452_1182574

Our Ref: EMS-952452_1210474

Site Details

Location: 433546 399070

Area: 0.04 ha

Authority: Barnsley Metropolitan Borough Council ↗



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Summary of findings p. 2 >

OS MasterMap site plan p.14 >

Aerial image p. 9 >

Insight User Guide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	4	63	70	-
21 >	1.2 >	Historical tanks >	0	0	0	1	-
21	1.3	Historical energy features	0	0	0	0	-
21	1.4	Historical petrol stations	0	0	0	0	-
22	1.5	Historical garages	0	0	0	0	-
22	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
23 >	2.1 >	Historical industrial land uses >	0	5	84	98	-
30 >	2.2 >	Historical tanks >	0	0	0	1	-
31	2.3	Historical energy features	0	0	0	0	-
31	2.4	Historical petrol stations	0	0	0	0	-
31	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
32	3.1	Active or recent landfill	0	0	0	0	-
32	3.2	Historical landfill (BGS records)	0	0	0	0	-
33	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
33	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
33 >	3.5 >	Historical waste sites >	0	0	0	1	-
33	3.6	Licensed waste sites	0	0	0	0	-
34 >	3.7 >	Waste exemptions >	0	0	2	2	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
35 >	4.1 >	Recent industrial land uses >	0	0	7	-	-
36 >	4.2 >	Current or recent petrol stations >	0	0	1	0	-
36	4.3	Electricity cables	0	0	0	0	-
36	4.4	Gas pipelines	0	0	0	0	-
37	4.5	Sites determined as Contaminated Land	0	0	0	0	-

37	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
37 >	**4.7 >**	**Regulated explosive sites >**	0	0	0	1	-
37 >	**4.8 >**	**Hazardous substance storage/usage >**	0	0	0	1	-
38	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
38	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
38 >	**4.11 >**	**Licensed pollutant release (Part A(2)/B) >**	0	0	1	1	-
39	4.12	Radioactive Substance Authorisations	0	0	0	0	-
39 >	**4.13 >**	**Licensed Discharges to controlled waters >**	0	0	2	0	-
39	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
40	4.15	Pollutant release to public sewer	0	0	0	0	-
40	4.16	List 1 Dangerous Substances	0	0	0	0	-
40	4.17	List 2 Dangerous Substances	0	0	0	0	-
40	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
40	4.19	Pollution inventory substances	0	0	0	0	-
41	4.20	Pollution inventory waste transfers	0	0	0	0	-
41	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
42	5.1	Superficial aquifer	None (within 500m)				
43 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
44 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
45	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
45	5.5	Groundwater vulnerability- local information	None (within 0m)				
46 >	**5.6 >**	**Groundwater abstractions >**	0	0	0	0	2
47 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	1
48	5.8	Potable abstractions	0	0	0	0	0
48	5.9	Source Protection Zones	0	0	0	0	-
48	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
49 >	**6.1 >**	**Water Network (OS MasterMap) >**	0	0	1	-	-

50 >	6.2 >	Surface water features >	0	0	1	-	-
50 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
50 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
51 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-

Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
52	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
52	7.2	Historical Flood Events	0	0	0	-	-
52	7.3	Flood Defences	0	0	0	-	-
53	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
53	7.5	Flood Storage Areas	0	0	0	-	-
54	7.6	Flood Zone 2	None (within 50m)				
54	7.7	Flood Zone 3	None (within 50m)				

Page	Section	Surface water flooding	
55	8.1	Surface water flooding	Negligible (within 50m)

Page	Section	Groundwater flooding >	
56 >	9.1 >	Groundwater flooding >	Negligible (within 50m)

Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
57	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
58	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
58	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
58	10.4	Special Protection Areas (SPA)	0	0	0	0	0
58	10.5	National Nature Reserves (NNR)	0	0	0	0	0
59 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
59 >	10.7 >	Designated Ancient Woodland >	0	0	3	2	10
60	10.8	Biosphere Reserves	0	0	0	0	0
60	10.9	Forest Parks	0	0	0	0	0
60	10.10	Marine Conservation Zones	0	0	0	0	0
60 >	10.11 >	Green Belt >	0	1	1	0	1
61	10.12	Proposed Ramsar sites	0	0	0	0	0

61	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
61	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
62	10.15	Nitrate Sensitive Areas	0	0	0	0	0
62 >	10.16 >	Nitrate Vulnerable Zones >	1	0	1	0	2
63 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
64	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
65	11.1	World Heritage Sites	0	0	0	-	-
65	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
65	11.3	National Parks	0	0	0	-	-
65	11.4	Listed Buildings	0	0	0	-	-
66	11.5	Conservation Areas	0	0	0	-	-
66	11.6	Scheduled Ancient Monuments	0	0	0	-	-
66	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
67 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
68	12.2	Open Access Land	0	0	0	-	-
68 >	12.3 >	Tree Felling Licences >	0	4	13	-	-
69 >	12.4 >	Environmental Stewardship Schemes >	0	0	1	-	-
69	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	13.1 >	Priority Habitat Inventory >	0	0	10	-	-
71	13.2	Habitat Networks	0	0	0	-	-
71	13.3	Open Mosaic Habitat	0	0	0	-	-
71	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
72 >	14.1 >	10k Availability >	Identified (within 500m)				
73 >	14.2 >	Artificial and made ground (10k) >	1	0	5	4	-
75	14.3	Superficial geology (10k)	0	0	0	0	-

75	14.4	Landslip (10k)	0	0	0	0	-
76 >	14.5 >	Bedrock geology (10k) >	1	1	2	9	-
77 >	14.6 >	Bedrock faults and other linear features (10k) >	1	0	8	9	-
Page	Section	**Geology 1:50,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	15.1 >	50k Availability >	Identified (within 500m)				
80 >	15.2 >	Artificial and made ground (50k) >	1	0	2	2	-
81 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
82	15.4	Superficial geology (50k)	0	0	0	0	-
82	15.5	Superficial permeability (50k)	None (within 50m)				
82	15.6	Landslip (50k)	0	0	0	0	-
82	15.7	Landslip permeability (50k)	None (within 50m)				
83 >	15.8 >	Bedrock geology (50k) >	1	1	1	7	-
84 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
84 >	15.10 >	Bedrock faults and other linear features (50k) >	0	1	4	11	-
Page	Section	**Boreholes** >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	16.1 >	BGS Boreholes >	0	2	62	-	-
Page	Section	**Natural ground subsidence** >					
90 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
91 >	17.2 >	Running sands >	Low (within 50m)				
93 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
95 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
96 >	17.5 >	Landslides >	Very low (within 50m)				
97 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings** >	On site	0-50m	50-250m	250-500m	500-2000m
99 >	18.1 >	BritPits >	0	0	5	15	-
104 >	18.2 >	Surface ground workings >	0	8	68	-	-
107 >	18.3 >	Underground workings >	0	0	24	28	39
110	18.4	Underground mining extents	0	0	0	0	-
110	18.5	Historical Mineral Planning Areas	0	0	0	0	-

111 >	18.6 >	Non-coal mining >	0	0	1	0	6
112	18.7	JPB mining areas	None (within 0m)				
112 >	18.8 >	The Coal Authority non-coal mining >	0	0	2	2	-
112 >	18.9 >	Researched mining >	0	0	4	24	-
114 >	18.10 >	Mining record office plans >	0	0	0	1	-
114	18.11	BGS mine plans	0	0	0	0	-
114 >	18.12 >	Coal mining >	Identified (within 0m)				
114	18.13	Brine areas	None (within 0m)				
115	18.14	Gypsum areas	None (within 0m)				
115	18.15	Tin mining	None (within 0m)				
115	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
116	19.1	Natural cavities	0	0	0	0	-
116	19.2	Mining cavities	0	0	0	0	0
116	19.3	Reported recent incidents	0	0	0	0	-
116	19.4	Historical incidents	0	0	0	0	-
117	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
118 >	20.1 >	Radon >	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
120 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	3	-	-	-
120	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
121	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
122	22.1	Underground railways (London)	0	0	0	-	-
122	22.2	Underground railways (Non-London)	0	0	0	-	-
123	22.3	Railway tunnels	0	0	0	-	-
123 >	22.4 >	Historical railway and tunnel features >	0	0	4	-	-
123	22.5	Royal Mail tunnels	0	0	0	-	-

124 >	22.6 >	Historical railways >	0	0	1	-	-
124	22.7	Railways	0	0	0	-	-
124	22.8	Crossrail 1	0	0	0	0	-
124	22.9	Crossrail 2	0	0	0	0	-
124	22.10	HS2	0	0	0	0	-

Recent aerial photograph

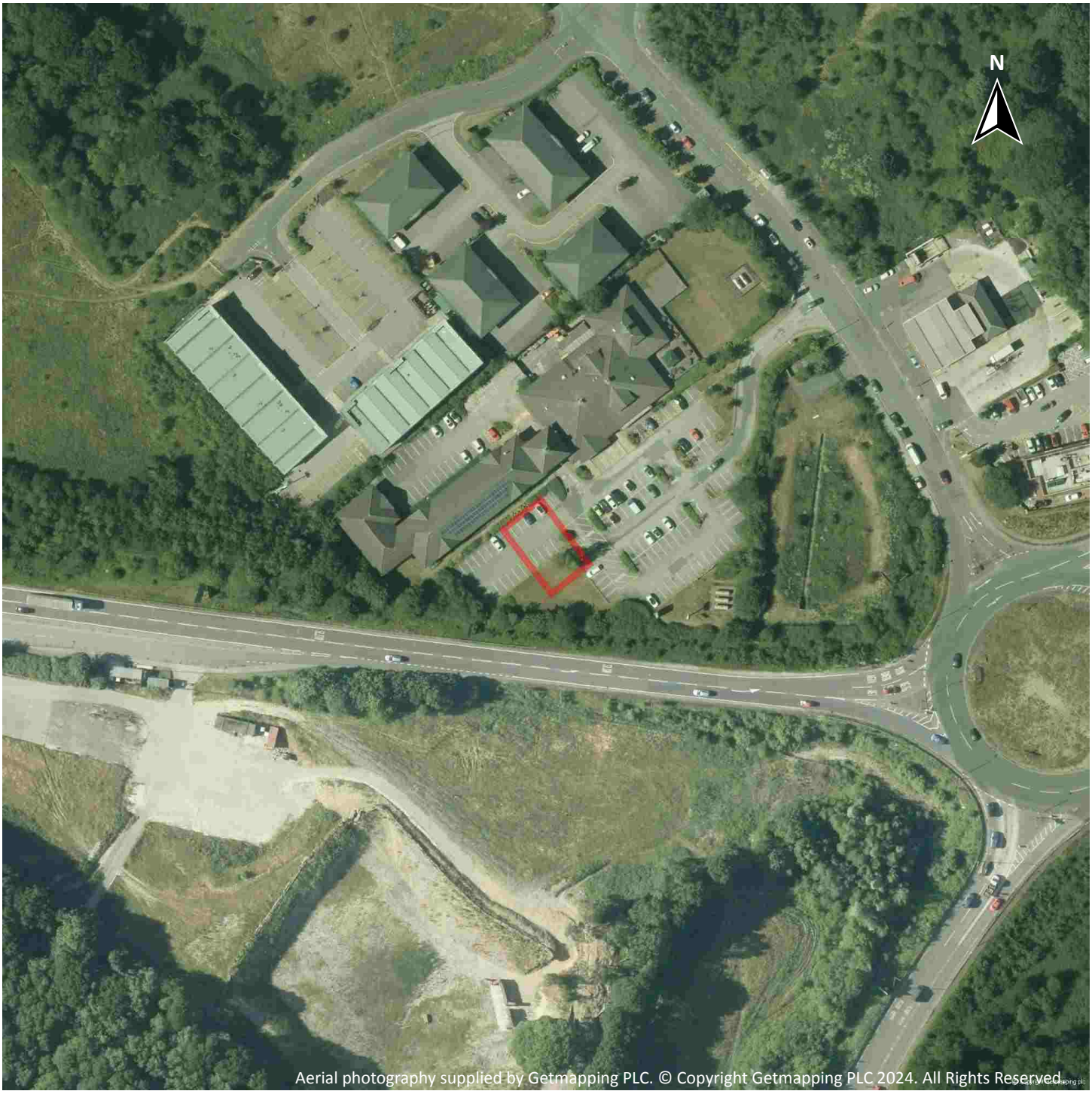


Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2024. All Rights Reserved.

Capture Date: 19/04/2021

Site Area: 0.04ha

Recent site history - 2018 aerial photograph



Capture Date: 27/06/2018

Site Area: 0.04ha

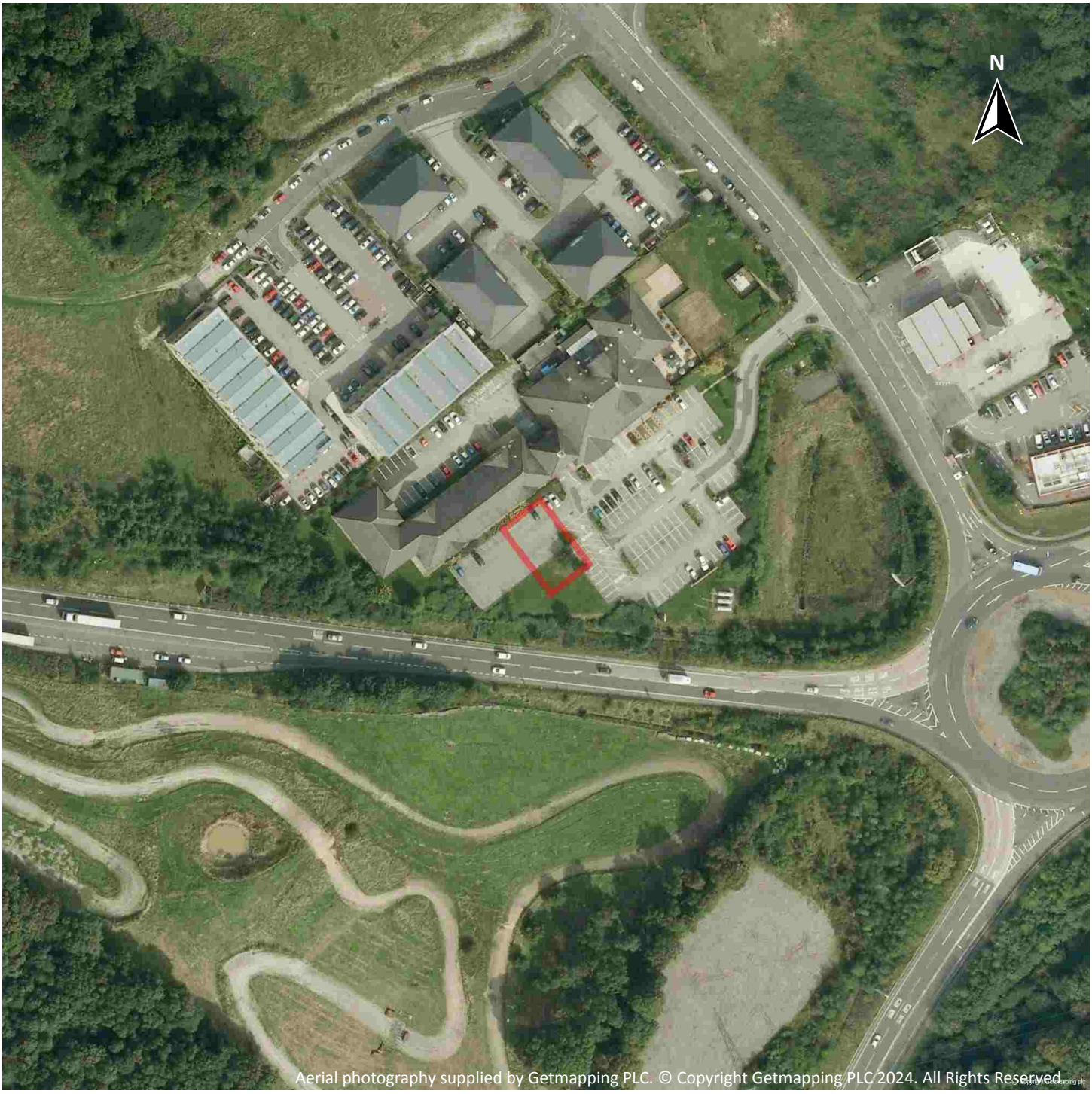
Recent site history - 2012 aerial photograph



Capture Date: 28/05/2012

Site Area: 0.04ha

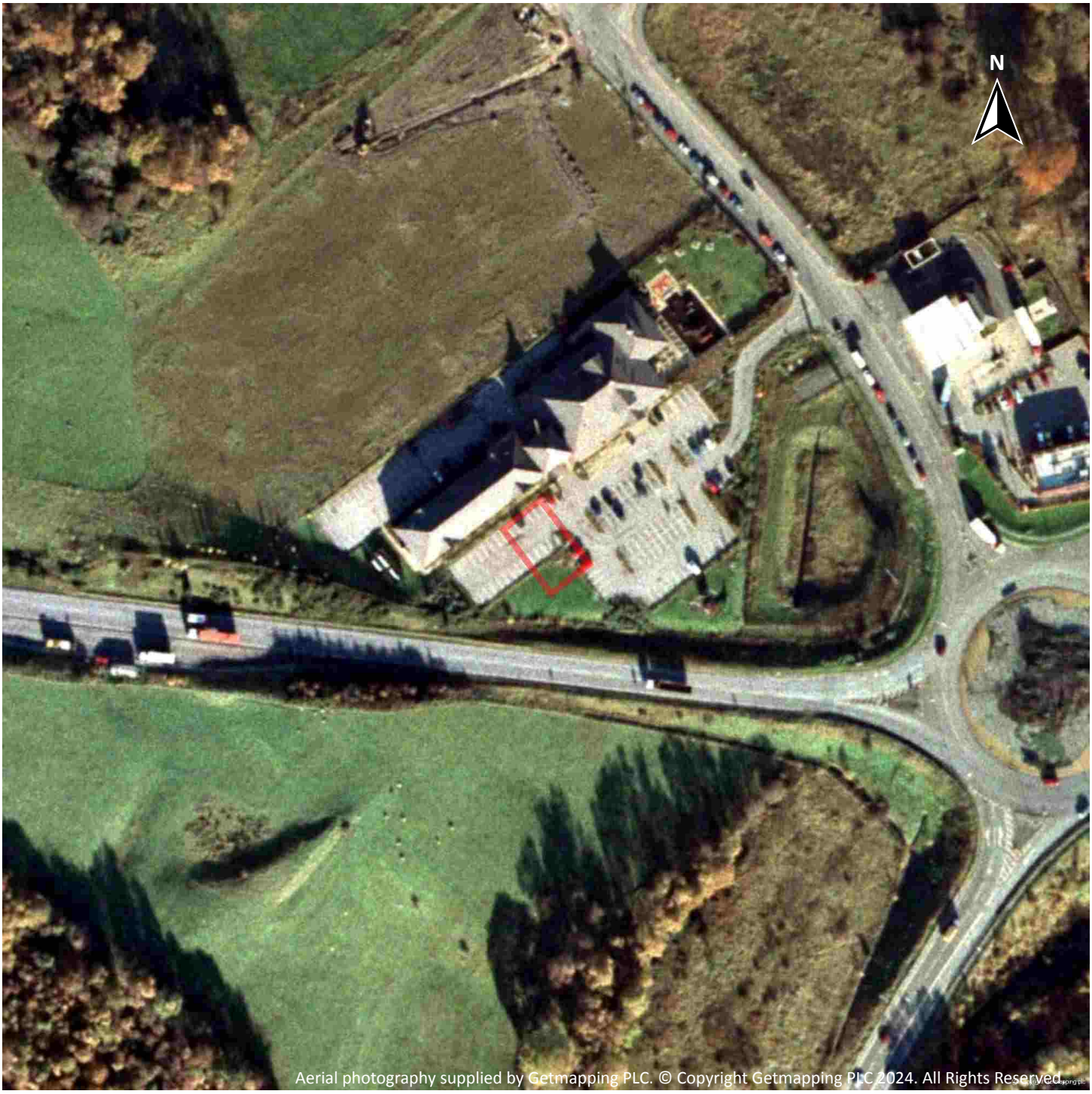
Recent site history - 2009 aerial photograph



Capture Date: 11/09/2009

Site Area: 0.04ha

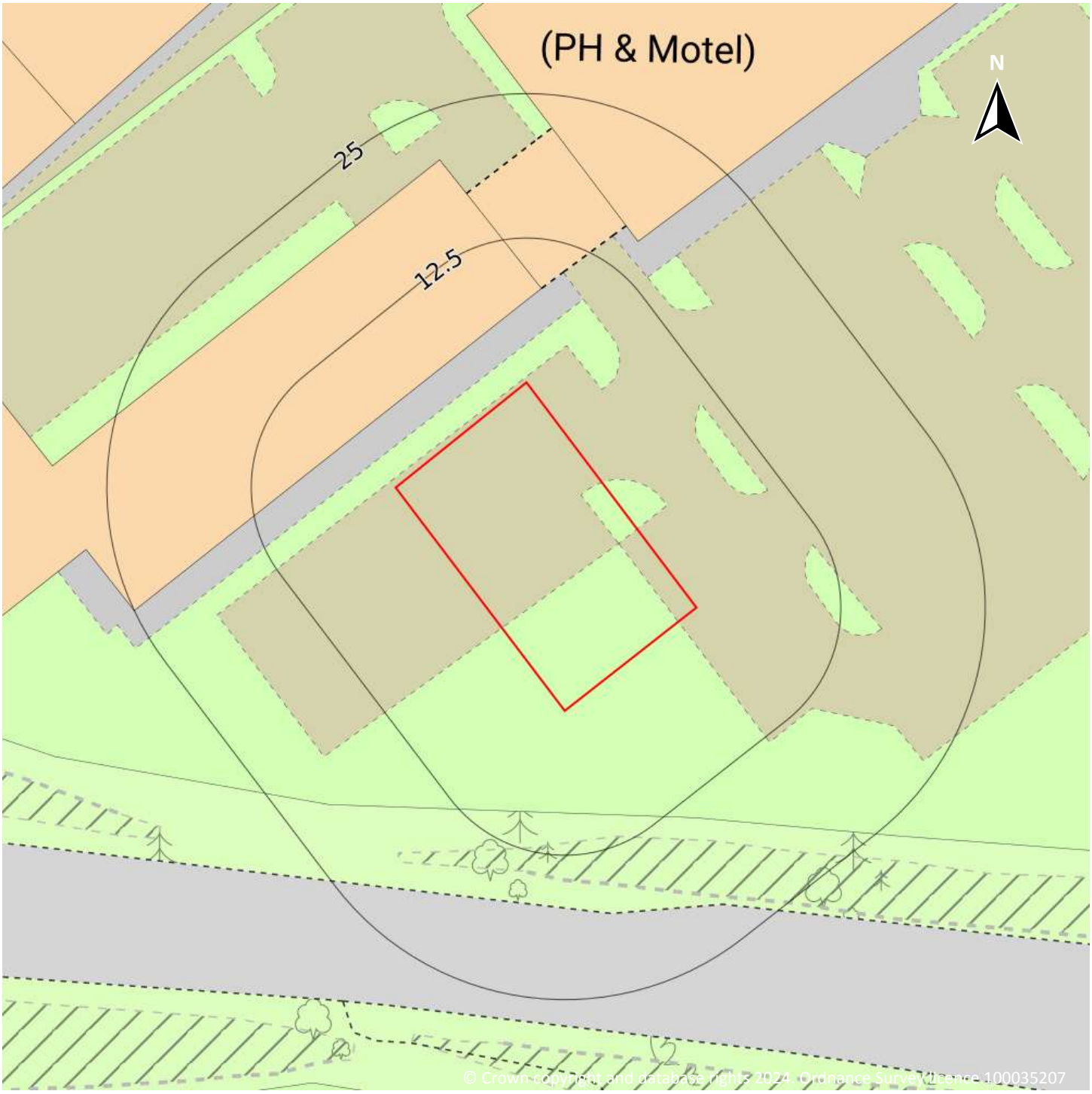
Recent site history - 1999 aerial photograph



Capture Date: 10/07/1999

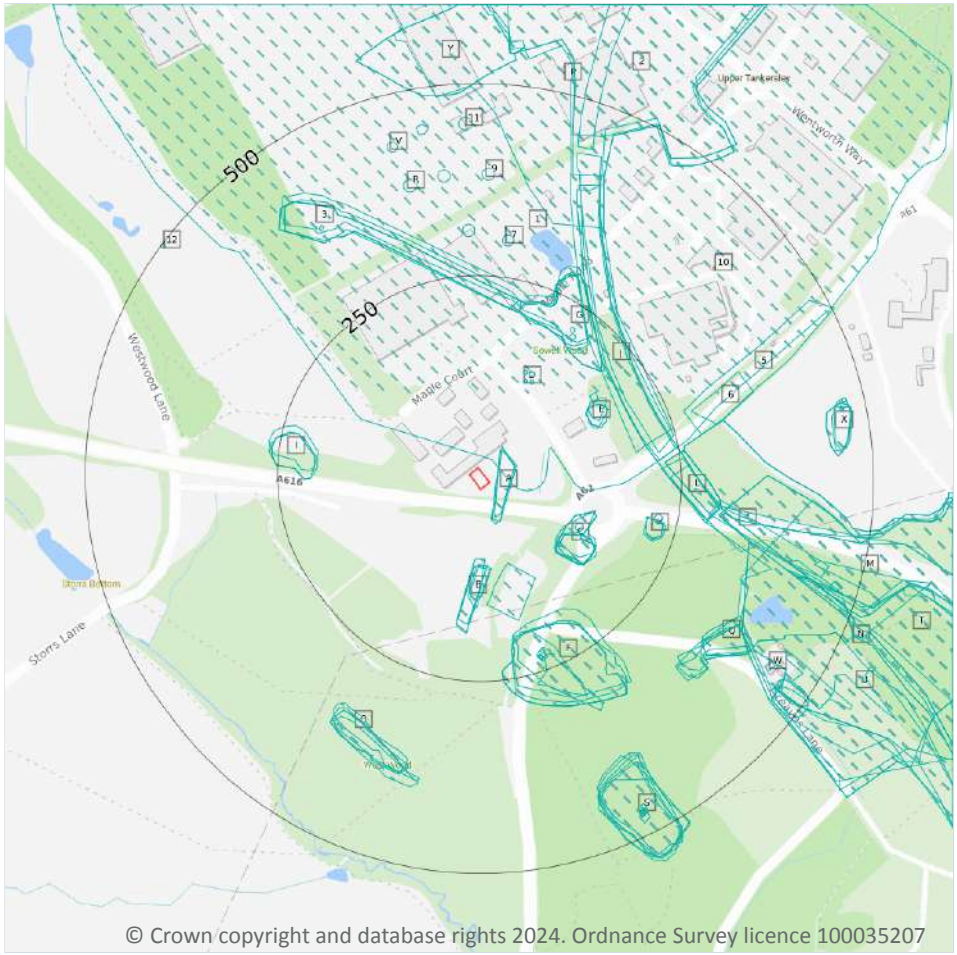
Site Area: 0.04ha

OS MasterMap site plan



Site Area: 0.04ha

1 Past land use



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

1.1 Historical industrial land uses

Records within 500m	137

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

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

ID	Location	Land use	Dates present	Group ID
A	8m E	Unspecified Heap	1938	1619324

ID	Location	Land use	Dates present	Group ID
A	10m E	Unspecified Heap	1948	1710589
A	10m E	Unspecified Heap	1951	1700293
1	15m N	Industrial Park	1992	2367015
B	91m S	Unspecified Heap	1951	1569070
B	97m S	Unspecified Pit	1980 - 1992	1743308
B	99m S	Unspecified Pit	1938 - 1948	1652947
B	99m S	Unspecified Pit	1903	1655895
B	100m S	Unspecified Pit	1966	1679001
B	102m S	Cuttings	1966 - 1980	1624482
C	112m SE	Unspecified Heap	1951	1696022
C	115m SE	Unspecified Heap	1948	1633094
C	115m SE	Unspecified Heap	1891	1674527
C	115m SE	Unspecified Heap	1938	1699292
C	115m SE	Unspecified Heap	1903	1709345
C	119m SE	Unspecified Heap	1980	1673757
C	119m SE	Unspecified Heap	1966	1692085
C	125m SE	Disused Air Shaft	1966 - 1980	1715223
D	127m NE	Unspecified Old Shafts	1938	1620882
D	127m NE	Unspecified Old Shafts	1903	1684436
D	129m NE	Unspecified Old Shafts	1903	1559415
D	129m NE	Unspecified Old Shaft	1938	1571530
D	136m NE	Unspecified Old Shafts	1951	1559416
D	137m NE	Unspecified Old Shafts	1951	1559418
E	151m NE	Unspecified Heap	1948	1743159
E	153m NE	Unspecified Heap	1903	1614775
E	153m NE	Unspecified Heap	1938	1674814
E	158m NE	Unspecified Heap	1951	1703375
E	169m NE	Disused Air Shaft	1966 - 1980	1657786

ID	Location	Land use	Dates present	Group ID
F	185m S	Refuse Heap	1951	1715553
G	191m NE	Refuse Heap	1938	1626490
G	191m NE	Refuse Heap	1903	1655063
G	191m NE	Refuse Heap	1891	1725265
2	191m E	Railway Sidings	1903 - 1966	2367817
F	194m S	Refuse Heap	1948	1737219
H	194m NE	Refuse Heap	1948	1624374
F	195m S	Refuse Heap	1891	1618379
F	195m S	Refuse Heap	1938	1642194
F	195m S	Refuse Heap	1903	1665925
F	196m S	Refuse Heap	1966 - 1980	1664004
H	198m NE	Unspecified Heap	1966 - 1980	1670113
I	199m W	Refuse Heap	1938 - 1948	1640376
I	199m W	Refuse Heap	1951	1702495
J	201m NE	Cuttings	1903	1629088
J	201m NE	Cuttings	1938 - 1948	1726977
I	202m W	Refuse Heap	1903	1644042
I	202m W	Refuse Heap	1891	1664113
J	202m NE	Cuttings	1891	1748464
G	205m NE	Refuse Heap	1951	1735136
H	206m NE	Unspecified Old Shaft	1948	1626748
J	207m NE	Cuttings	1951	1716250
K	210m E	Old Ironstone Pit	1903	1613042
K	210m E	Unspecified Heap	1938	1653863
K	210m E	Unspecified Heap	1891	1730695
3	210m N	Unspecified Heap	1948	1644813
K	211m E	Unspecified Ground Workings	1948	1728210
H	215m NE	Unspecified Old Shafts	1951	1559417

ID	Location	Land use	Dates present	Group ID
K	219m E	Unspecified Pit	1951	1609894
F	221m S	Unspecified Old Shaft	1951	1571531
F	222m S	Unspecified Disused Shaft	1966 - 1980	1695924
L	225m E	Cuttings	1891	1670224
F	228m S	Unspecified Old Shaft	1903	1687751
F	228m S	Unspecified Old Shaft	1938 - 1948	1736831
4	230m E	Railway Sidings	1951	1646928
L	230m E	Cuttings	1951	1710425
F	231m S	Unspecified Heap	1992	1569071
M	236m E	Railway Sidings	1938 - 1948	1680231
M	256m E	Unspecified Commercial/Industrial	1966	1562835
M	256m E	Colliery	1951	1685577
5	269m E	Cuttings	1951	1655140
6	278m E	Cuttings	1966 - 1992	1628586
N	287m E	Colliery	1938	1684620
7	291m N	Unspecified Pit	1891	1609896
G	301m N	Unspecified Pit	1891	1609888
N	302m E	Colliery	1903	1634176
N	302m E	Colliery	1891	1649499
M	306m E	Railway Sidings	1891	1686386
M	306m E	Railway Sidings	1903	1712832
O	329m SW	Unspecified Quarry	1951 - 1992	1682604
P	332m N	Colliery	1891 - 1966	2366857
Q	333m SE	Refuse Heap	1951	1748324
O	334m SW	Unspecified Quarry	1948	1695187
O	338m SW	Unspecified Quarry	1938	1654092
O	338m SW	Unspecified Quarry	1903	1721258
Q	340m SE	Refuse Heap	1938	1723626

ID	Location	Land use	Dates present	Group ID
Q	342m SE	Refuse Heaps	1948	1739615
O	345m SW	Unspecified Quarry	1891	1705782
N	349m E	Colliery	1948	1690473
Q	351m SE	Refuse Heap	1891	1682594
Q	351m SE	Refuse Heap	1903	1676977
8	369m NW	Unspecified Old Shaft	1903	1571529
R	369m N	Unspecified Pit	1891	1609893
9	374m N	Unspecified Pit	1891	1609895
R	374m N	Unspecified Pit	1891	1609892
S	392m SE	Refuse Heap	1938	1746901
S	394m SE	Refuse Heap	1951	1699252
S	399m SE	Refuse Heap	1948	1722074
P	401m N	Unspecified Commercial/Industrial	1951	2367060
S	401m SE	Refuse Heap	1903	1662514
T	402m E	Refuse Heap	1951	1649679
T	405m E	Refuse Heap	1948	1742915
U	405m SE	Railway Sidings	1938 - 1948	1623948
U	405m SE	Railway Sidings	1903	1707899
S	408m SE	Refuse Heap	1891	1681565
S	415m SE	Unspecified Heap	1966 - 1992	1673868
T	415m E	Refuse Heap	1891	1659942
T	415m E	Refuse Heap	1938	1712317
V	425m N	Unspecified Pit	1891	1609889
W	431m SE	Coke Ovens	1903	1603442
P	438m N	Railway Sidings	1891	1662697
11	440m N	Unspecified Pit	1891	1609891
V	440m N	Unspecified Pit	1891	1609890
X	444m E	Refuse Heap	1938	1712273

ID	Location	Land use	Dates present	Group ID
X	444m E	Refuse Heap	1903	1725884
W	448m SE	Ovens	1891	1587087
P	450m N	Unspecified Commercial/Industrial	1948	1682974
X	452m E	Unspecified Heap	1948 - 1966	1702153
X	453m E	Unspecified Disused Tip	1992	1573694
W	456m SE	Coke Ovens	1903	1603441
W	457m SE	Unspecified Heap	1951	1637464
W	459m SE	Unspecified Heap	1948	1647414
U	460m SE	Railway Sidings	1891	1635858
S	461m SE	Unspecified Old Shaft	1951	1571532
U	463m SE	Refuse Heap	1903	1668641
M	463m E	Disused Air Shaft	1966	1600121
S	466m SE	Unspecified Disused Shaft	1980 - 1992	1741542
X	466m E	Unspecified Shaft	1903	1706856
X	466m E	Unspecified Shaft	1938 - 1948	1726312
S	467m SE	Unspecified Old Shaft	1938	1635659
S	468m SE	Unspecified Old Shaft	1948	1711927
X	468m E	Unspecified Disused Shaft	1966 - 1992	1674616
S	470m SE	Unspecified Disused Shaft	1966	1668679
S	470m SE	Unspecified Old Shaft	1903	1714928
X	471m E	Unspecified Shaft	1951	1579079
Y	487m N	Hospital	1891	1602942
Y	487m N	Infectious Diseases Hospital	1903	1603506
12	495m NW	Unspecified Shaft	1903	1579080

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	1

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

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

ID	Location	Land use	Dates present	Group ID
10	401m NE	Unspecified Tank	1963	253887

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	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.

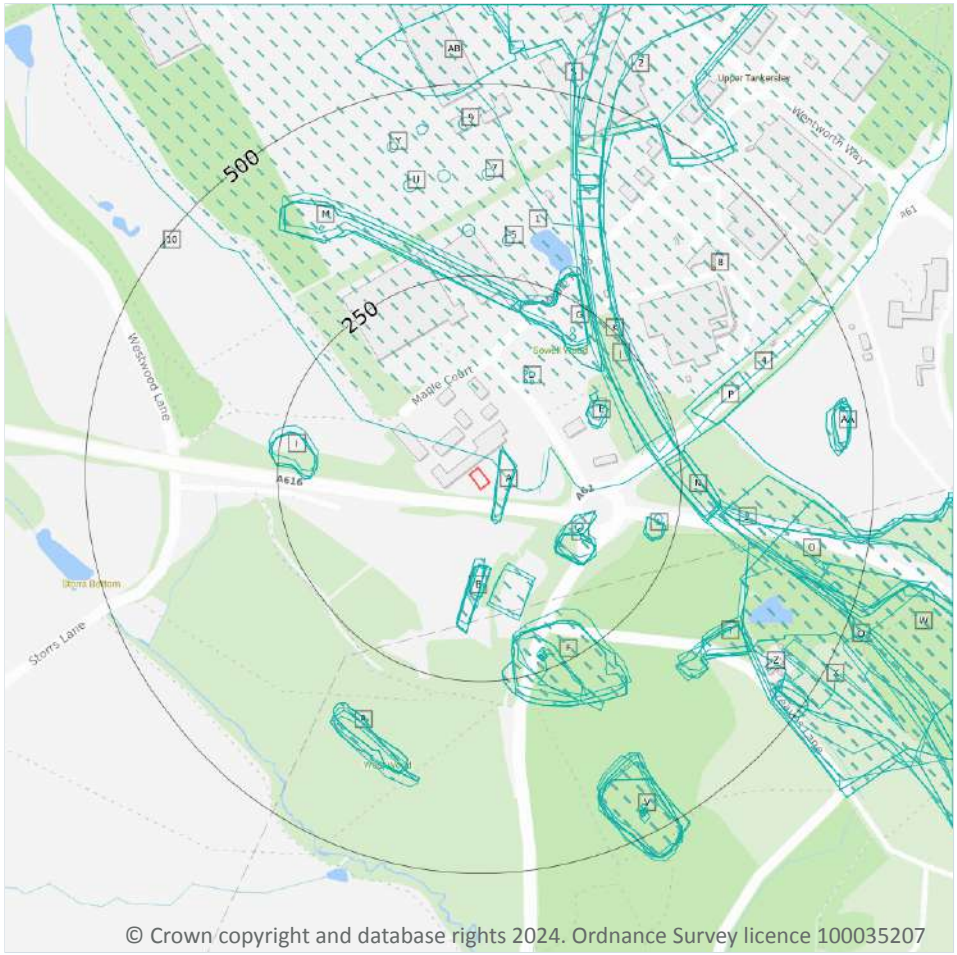
1.6 Historical military land

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



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

2.1 Historical industrial land uses

Records within 500m	187

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 23 >**

ID	Location	Land Use	Date	Group ID
A	8m E	Unspecified Heap	1938	1619324
A	10m E	Unspecified Heap	1948	1710589
A	10m E	Unspecified Heap	1948	1710589

ID	Location	Land Use	Date	Group ID
A	10m E	Unspecified Heap	1951	1700293
1	15m N	Industrial Park	1992	2367015
B	91m S	Unspecified Heap	1951	1569070
B	97m S	Unspecified Pit	1992	1743308
B	97m S	Unspecified Pit	1980	1743308
B	99m S	Unspecified Pit	1938	1652947
B	99m S	Unspecified Pit	1903	1655895
B	100m S	Unspecified Pit	1948	1652947
B	100m S	Unspecified Pit	1948	1652947
B	100m S	Unspecified Pit	1966	1679001
B	102m S	Cuttings	1980	1624482
B	107m S	Cuttings	1966	1624482
C	112m SE	Unspecified Heap	1951	1696022
C	115m SE	Unspecified Heap	1948	1633094
C	115m SE	Unspecified Heap	1948	1633094
C	115m SE	Unspecified Heap	1938	1699292
C	115m SE	Unspecified Heap	1903	1709345
C	115m SE	Unspecified Heap	1891	1674527
C	119m SE	Unspecified Heap	1966	1692085
C	119m SE	Unspecified Heap	1980	1673757
C	125m SE	Disused Air Shaft	1966	1715223
C	125m SE	Disused Air Shaft	1980	1715223
D	127m NE	Unspecified Old Shafts	1938	1620882
D	127m NE	Unspecified Old Shafts	1903	1684436
D	129m NE	Unspecified Old Shaft	1938	1571530
D	129m NE	Unspecified Old Shafts	1903	1559415
D	136m NE	Unspecified Old Shafts	1951	1559416
D	137m NE	Unspecified Old Shafts	1951	1559418

ID	Location	Land Use	Date	Group ID
E	151m NE	Unspecified Heap	1948	1743159
E	151m NE	Unspecified Heap	1948	1743159
E	153m NE	Unspecified Heap	1938	1674814
E	153m NE	Unspecified Heap	1903	1614775
E	158m NE	Unspecified Heap	1951	1703375
E	169m NE	Disused Air Shaft	1966	1657786
E	169m NE	Disused Air Shaft	1980	1657786
F	185m S	Refuse Heap	1951	1715553
G	191m NE	Refuse Heap	1938	1626490
G	191m NE	Refuse Heap	1903	1655063
G	191m NE	Refuse Heap	1891	1725265
2	191m E	Railway Sidings	1966	2367817
F	194m S	Refuse Heap	1948	1737219
F	194m S	Refuse Heap	1948	1737219
H	194m NE	Refuse Heap	1948	1624374
H	194m NE	Refuse Heap	1948	1624374
F	195m S	Refuse Heap	1938	1642194
F	195m S	Refuse Heap	1903	1665925
F	195m S	Refuse Heap	1891	1618379
F	196m S	Refuse Heap	1966	1664004
H	198m NE	Unspecified Heap	1966	1670113
H	198m NE	Unspecified Heap	1980	1670113
I	199m W	Refuse Heap	1948	1640376
I	199m W	Refuse Heap	1948	1640376
I	199m W	Refuse Heap	1951	1702495
J	201m NE	Cuttings	1938	1726977
J	201m NE	Cuttings	1903	1629088
F	202m S	Refuse Heap	1980	1664004

ID	Location	Land Use	Date	Group ID
I	202m W	Refuse Heap	1938	1640376
I	202m W	Refuse Heap	1903	1644042
I	202m W	Refuse Heap	1891	1664113
K	202m NE	Cuttings	1891	1748464
J	202m NE	Cuttings	1948	1726977
G	205m NE	Refuse Heap	1951	1735136
H	206m NE	Unspecified Old Shaft	1948	1626748
H	206m NE	Unspecified Old Shaft	1948	1626748
K	207m NE	Cuttings	1951	1716250
L	210m E	Old Ironstone Pit	1903	1613042
L	210m E	Unspecified Heap	1938	1653863
L	210m E	Unspecified Heap	1891	1730695
M	210m N	Unspecified Heap	1948	1644813
M	210m N	Unspecified Heap	1948	1644813
L	211m E	Unspecified Ground Workings	1948	1728210
L	211m E	Unspecified Ground Workings	1948	1728210
H	215m NE	Unspecified Old Shafts	1951	1559417
L	219m E	Unspecified Pit	1951	1609894
F	221m S	Unspecified Old Shaft	1951	1571531
F	222m S	Unspecified Disused Shaft	1966	1695924
N	225m E	Cuttings	1891	1670224
F	227m S	Unspecified Disused Shaft	1980	1695924
F	228m S	Unspecified Old Shaft	1938	1736831
F	228m S	Unspecified Old Shaft	1903	1687751
F	230m S	Unspecified Old Shaft	1948	1736831
F	230m S	Unspecified Old Shaft	1948	1736831
3	230m E	Railway Sidings	1951	1646928
N	230m E	Cuttings	1951	1710425

ID	Location	Land Use	Date	Group ID
F	231m S	Unspecified Heap	1992	1569071
O	236m E	Railway Sidings	1948	1680231
O	256m E	Unspecified Commercial/Industrial	1966	1562835
O	256m E	Colliery	1951	1685577
4	269m E	Cuttings	1951	1655140
P	278m E	Cuttings	1966	1628586
P	278m E	Cuttings	1992	1628586
P	278m E	Cuttings	1980	1628586
Q	287m E	Colliery	1938	1684620
5	291m N	Unspecified Pit	1891	1609896
O	296m E	Railway Sidings	1938	1680231
G	301m N	Unspecified Pit	1891	1609888
Q	302m E	Colliery	1903	1634176
Q	302m E	Colliery	1891	1649499
O	306m E	Railway Sidings	1903	1712832
O	306m E	Railway Sidings	1891	1686386
R	329m SW	Unspecified Quarry	1966	1682604
R	329m SW	Unspecified Quarry	1951	1682604
R	329m SW	Unspecified Quarry	1992	1682604
R	329m SW	Unspecified Quarry	1980	1682604
S	332m N	Colliery	1966	2366857
T	333m SE	Refuse Heap	1951	1748324
R	334m SW	Unspecified Quarry	1948	1695187
R	338m SW	Unspecified Quarry	1938	1654092
R	338m SW	Unspecified Quarry	1903	1721258
T	340m SE	Refuse Heap	1938	1723626
T	342m SE	Refuse Heaps	1948	1739615
T	342m SE	Refuse Heaps	1948	1739615

ID	Location	Land Use	Date	Group ID
R	345m SW	Unspecified Quarry	1891	1705782
Q	349m E	Colliery	1948	1690473
Q	349m E	Colliery	1948	1690473
T	351m SE	Refuse Heap	1903	1676977
T	351m SE	Refuse Heap	1891	1682594
6	369m NW	Unspecified Old Shaft	1903	1571529
U	369m N	Unspecified Pit	1891	1609893
S	373m N	Railway Sidings	1948	2367817
7	374m N	Unspecified Pit	1891	1609895
U	374m N	Unspecified Pit	1891	1609892
S	390m N	Railway Sidings	1938	2367817
S	390m N	Railway Sidings	1903	2367817
V	392m SE	Refuse Heap	1938	1746901
V	394m SE	Refuse Heap	1951	1699252
V	399m SE	Refuse Heap	1948	1722074
V	399m SE	Refuse Heap	1948	1722074
S	401m N	Railway Sidings	1966	2367817
S	401m N	Unspecified Commercial/Industrial	1951	2367060
S	401m N	Railway Sidings	1951	2367817
V	401m SE	Refuse Heap	1903	1662514
W	402m E	Refuse Heap	1951	1649679
W	405m E	Refuse Heap	1948	1742915
W	405m E	Refuse Heap	1948	1742915
X	405m SE	Railway Sidings	1938	1623948
X	405m SE	Railway Sidings	1903	1707899
V	408m SE	Refuse Heap	1891	1681565
V	415m SE	Unspecified Heap	1966	1673868
V	415m SE	Unspecified Heap	1992	1673868

ID	Location	Land Use	Date	Group ID
V	415m SE	Unspecified Heap	1980	1673868
W	415m E	Refuse Heap	1938	1712317
W	415m E	Refuse Heap	1891	1659942
Y	425m N	Unspecified Pit	1891	1609889
Z	431m SE	Coke Ovens	1903	1603442
S	438m N	Railway Sidings	1891	1662697
X	439m SE	Railway Sidings	1948	1623948
9	440m N	Unspecified Pit	1891	1609891
Y	440m N	Unspecified Pit	1891	1609890
AA	444m E	Refuse Heap	1938	1712273
AA	444m E	Refuse Heap	1903	1725884
Z	448m SE	Ovens	1891	1587087
S	450m N	Unspecified Commercial/Industrial	1948	1682974
AA	452m E	Unspecified Heap	1948	1702153
AA	452m E	Unspecified Heap	1948	1702153
AA	453m E	Unspecified Disused Tip	1992	1573694
Z	456m SE	Coke Ovens	1903	1603441
AA	456m E	Unspecified Heap	1966	1702153
AA	456m E	Unspecified Heap	1951	1702153
Z	457m SE	Unspecified Heap	1951	1637464
Z	459m SE	Unspecified Heap	1948	1647414
Z	459m SE	Unspecified Heap	1948	1647414
X	460m SE	Railway Sidings	1891	1635858
V	461m SE	Unspecified Old Shaft	1951	1571532
X	463m SE	Refuse Heap	1903	1668641
O	463m E	Disused Air Shaft	1966	1600121
V	466m SE	Unspecified Disused Shaft	1992	1741542
V	466m SE	Unspecified Disused Shaft	1980	1741542

ID	Location	Land Use	Date	Group ID
AA	466m E	Unspecified Shaft	1938	1726312
AA	466m E	Unspecified Shaft	1903	1706856
AA	467m E	Unspecified Shaft	1948	1726312
AA	467m E	Unspecified Shaft	1948	1726312
V	467m SE	Unspecified Old Shaft	1938	1635659
V	468m SE	Unspecified Old Shaft	1948	1711927
V	468m SE	Unspecified Old Shaft	1948	1711927
AA	468m E	Unspecified Disused Shaft	1966	1674616
AA	468m E	Unspecified Disused Shaft	1992	1674616
AA	468m E	Unspecified Disused Shaft	1980	1674616
V	470m SE	Unspecified Disused Shaft	1966	1668679
V	470m SE	Unspecified Old Shaft	1903	1714928
AA	471m E	Unspecified Shaft	1951	1579079
AB	487m N	Infectious Diseases Hospital	1903	1603506
AB	487m N	Hospital	1891	1602942
10	495m NW	Unspecified Shaft	1903	1579080

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**1**

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 23 >**

ID	Location	Land Use	Date	Group ID
8	401m NE	Unspecified Tank	1963	253887

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	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



Site Outline

Search buffers in metres (m)

Historical waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	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	1

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

Features are displayed on the Waste and landfill map on **page 32 >**

ID	Location	Address	Further Details	Date
5	463m E	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1956

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	4

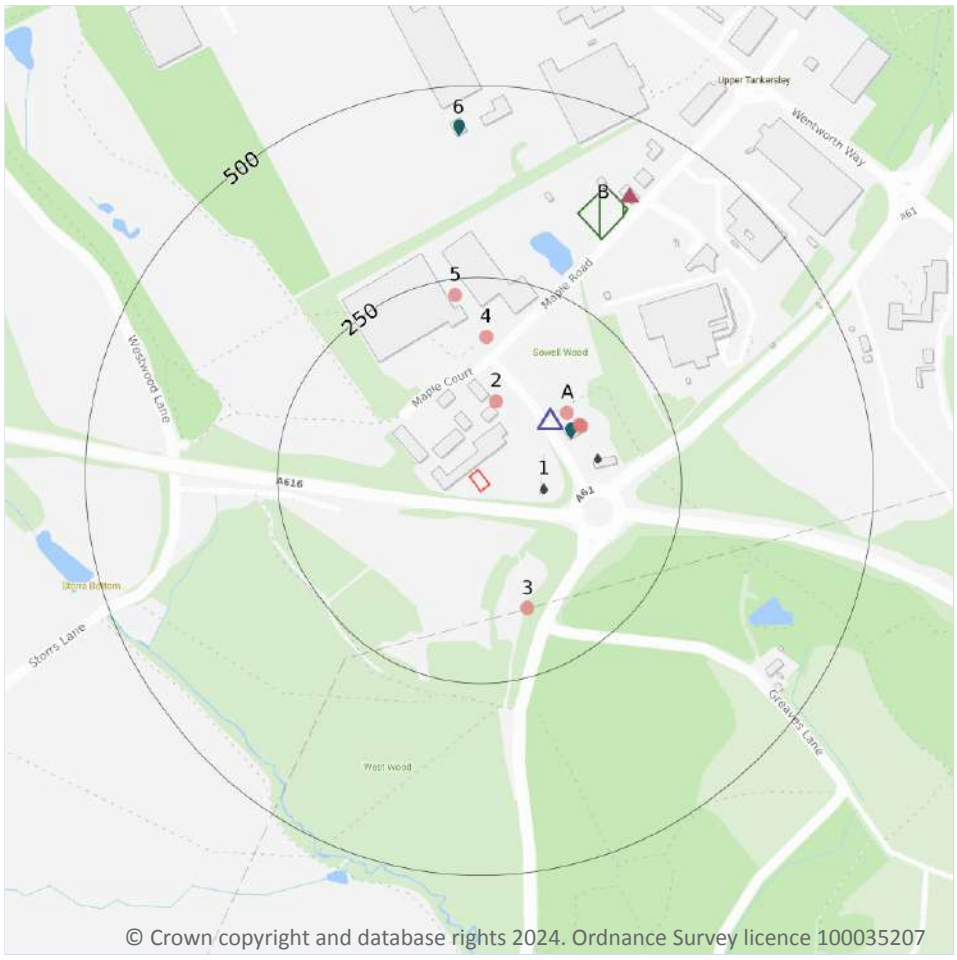
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 32 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	61m SE	A616 Layby Off A616 Tankersley South Yorkshire S75 3dp	EPR/FF0405NA/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
2	173m E	-	WEX249878	Using waste exemption	Not on a farm	Use of waste in construction
3	303m N	-	WEX394295	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
4	411m NE	Dx Network Services Ltd, Maple Drive, Tankersley, Barnsley, S75 3dj	WEX291098	Storing waste exemption	Not on a farm	Storage of waste in a secure place

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

- Recent industrial land uses
- Current or recent petrol stations
- Regulated explosive sites
- Hazardous substance storage/usage
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m	7

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Company	Address	Activity	Category
2	92m N	Electricity Sub Station	South Yorkshire, S75	Electrical Features	Infrastructure and Facilities
A	137m NE	Rss Wentworth Park	Maple Road, Tankersley, Barnsley, South Yorkshire, S75 3DL	Vehicle Cleaning Services	Personal, Consumer and Other Services

ID	Location	Company	Address	Activity	Category
A	141m NE	Shell Car Wash	-, Maple Road, Tankersley, Barnsley, South Yorkshire, S75 3DL	Vehicle Cleaning Services	Personal, Consumer and Other Services
A	141m NE	Shell	Maple Road, Tankersley, Barnsley, South Yorkshire, S75 3DL	Petrol and Fuel Stations	Road and Rail
3	164m S	Pylon	South Yorkshire, S35	Electrical Features	Infrastructure and Facilities
4	174m N	Electricity Sub Station	South Yorkshire, S75	Electrical Features	Infrastructure and Facilities
5	229m N	Electricity Sub Station	South Yorkshire, S75	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Company	Address	LPG	Status
A	114m NE	SHELL	Maple Road, A61, Tankersley, Barnsley, South Yorkshire, S75 3DL	Yes	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	1

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.

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Company	Operational Address
B	340m NE	Jimmy's Wholesale Fireworks Limited	Wentworth Business Park, Tankersley, Maple Road , Barnsley, S.Yorks, S75 3DL

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	1

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.

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Details	
B	408m NE	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: Jimmy's Wholesale Fireworks Ltd, Wentworth Business Park, Maple Road, Tankersley, Barnsley, South Yorkshire, England, S75 3DL	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	**0**

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	**0**

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

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

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

Records within 500m	**2**

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

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Address	Details	
A	125m NE	A Y & Y Patel (Dewsbury) Limited, Maple Road, Tankersley, Barnsley, S75 3DL	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
6	446m N	Mercedes Benz (UK) Ltd, Wentworth Way, Tankersley, Barnsley, S75 3DH	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	2

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

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Address	Details	
1	70m E	SPS MAPLE ROAD, WENTWORTH PARK, TANKERSLEY	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA7300 Permit Version: 1 Receiving Water: TRIB OF BLACKBURN BROOK	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 05/02/1997 Effective Date: 05/02/1997 Revocation Date: -
A	144m E	DISCHARGE TO TRIB OF BLACKBURN BROO, K FROM:WENTWORTH OPENCAST COAL S, ITE.	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: WA6402 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: 19/06/1991 Effective Date: 19/06/1991 Revocation Date: 04/06/1992

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer

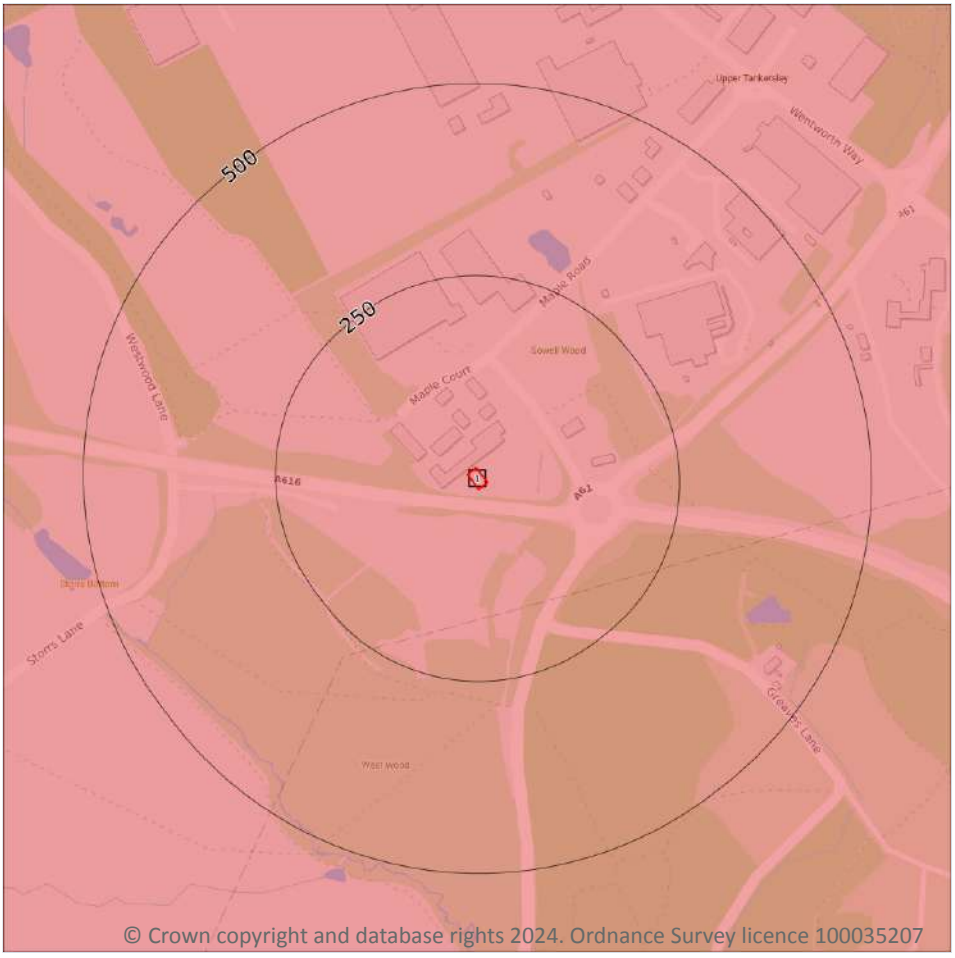
5.1 Superficial aquifer

Records within 500m	0

Aquifer status of groundwater held within superficial geology.

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

Bedrock aquifer



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 43 >**

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 44 >**

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.

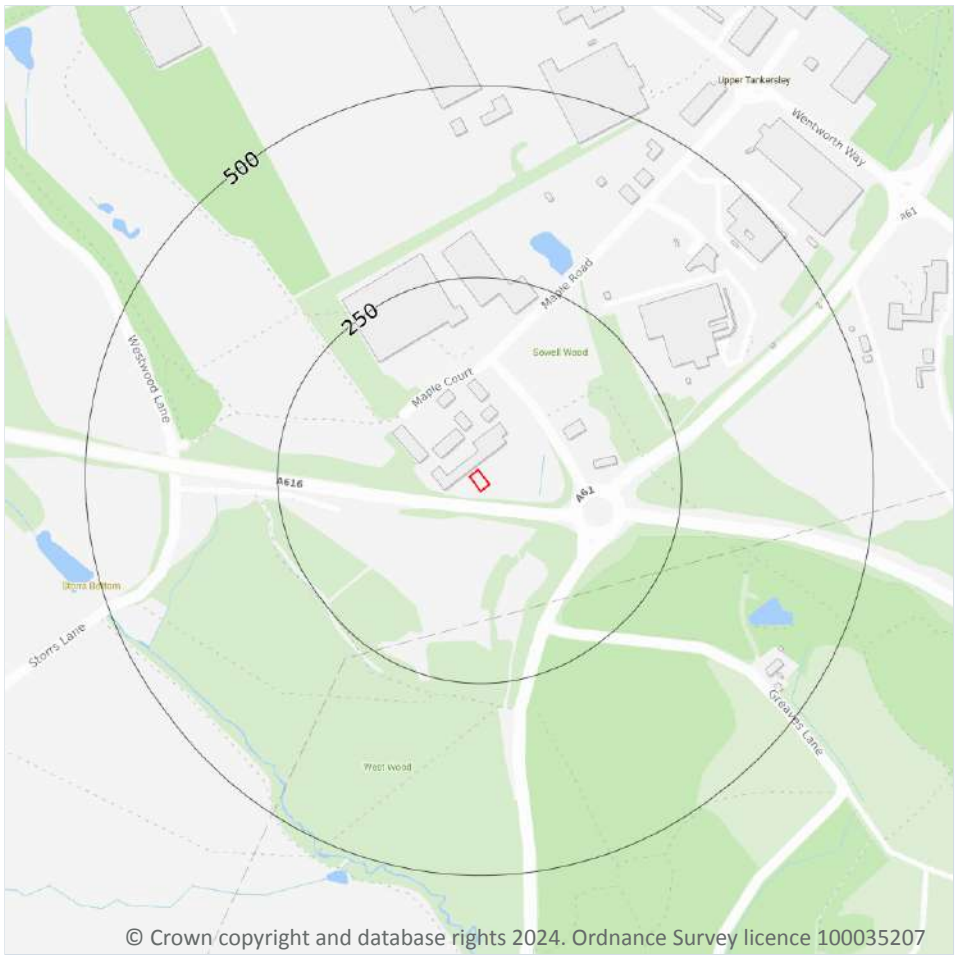
5.5 Groundwater vulnerability- local information

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



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

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	2

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 46 >**

ID	Location	Details	
-	1070m NW	Status: Historical Licence No: 03/28/20/0057 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: RED HOUSE FARM, RATCLIIFE CULEY - WELL Data Type: Point Name: MESSRS J D & G G HUNT Easting: 432600 Northing: 399600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 13/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/06/1994 Version End Date: -
-	1263m SW	Status: Historical Licence No: 2/27/08/132 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-HOLLY HOUSE FARM Data Type: Point Name: FIRTH Easting: 432870 Northing: 397990	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/06/2003 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 26/06/2003 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**1**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 46 >**

ID	Location	Details	
-	1562m SE	Status: Historical Licence No: 2/27/06/042 Details: General Use Relating To Secondary Category (Low Loss) Direct Source: SURFACE WATER Point: DEVIL'S BRIDGE POND - THORNCLIFFE Data Type: Point Name: SPIRE SHEFFIELD LTD Easting: 434600 Northing: 397900	Annual Volume (m^3): 18184 Max Daily Volume (m^3): 545.53 Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 30/09/1999 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	1

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

Features are displayed on the Hydrology map on **page 49 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	66m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	1

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

Features are displayed on the Hydrology map on **page 49 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

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

Features are displayed on the Hydrology map on **page 49 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River**	**Blackburn Brook from Source to River Don**	**GB104027057440**	**Don Middle**	**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 49 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	2804m SE	River	Blackburn Brook from Source to River Don	GB104027057440 ↗	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 49 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	**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

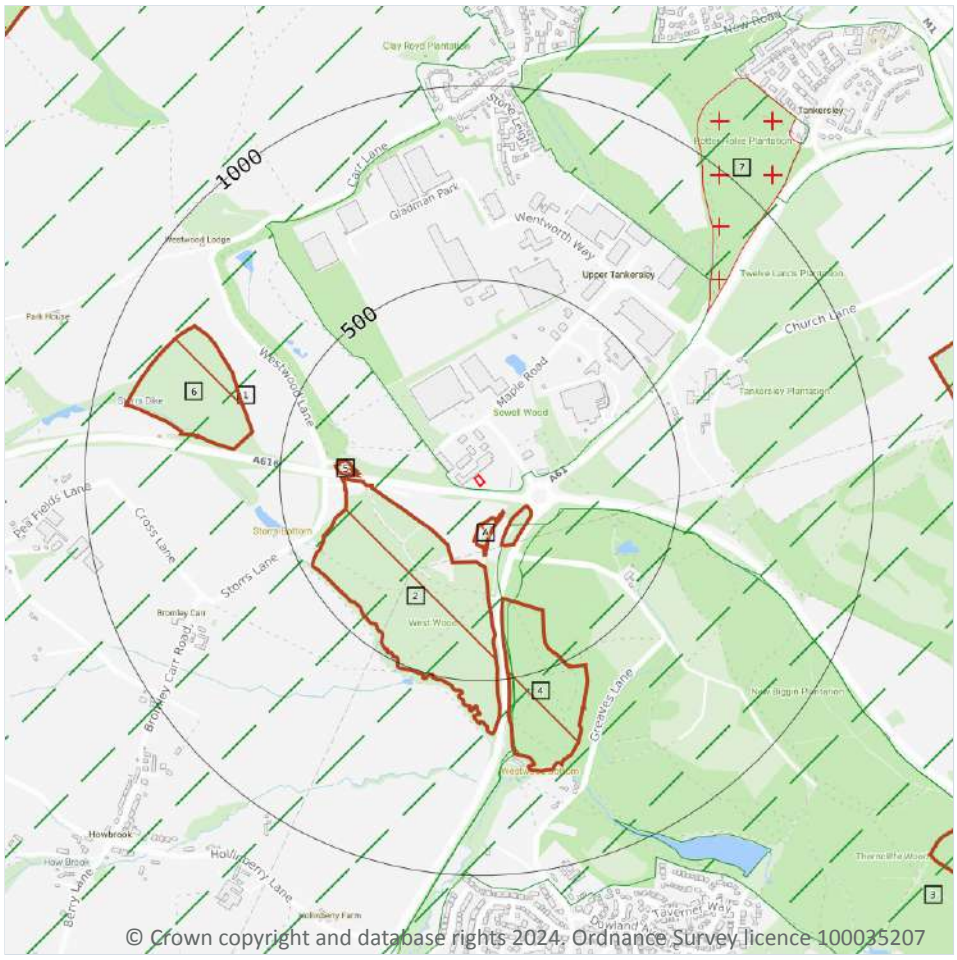
Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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 56 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 57 >**

ID	Location	Name	Data source
7	721m NE	Potter Holes Plantation	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	15

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 57 >**

ID	Location	Name	Woodland Type
A	87m S	West Wood	Ancient & Semi-Natural Woodland
A	116m SE	West Wood	Ancient & Semi-Natural Woodland
2	167m SW	West Wood	Ancient & Semi-Natural Woodland
4	294m S	West Wood	Ancient & Semi-Natural Woodland
5	301m W	West Wood	Ancient & Semi-Natural Woodland
6	582m W	Winterbottom Busks	Ancient & Semi-Natural Woodland
8	1189m E	Bull Wood	Ancient & Semi-Natural Woodland
9	1485m SE	Thorncliffe Wood	Ancient & Semi-Natural Woodland
-	1551m W	Copley Wood	Ancient & Semi-Natural Woodland
-	1597m W	Copley Wood	Ancient Replanted Woodland
12	1623m NW	High Wood	Ancient & Semi-Natural Woodland
-	1787m SW	Low Booth Wood	Ancient & Semi-Natural Woodland

ID	Location	Name	Woodland Type
-	1823m SW	Low Booth Wood	Ancient Replanted Woodland
-	1978m NW	Unknown	Ancient Replanted Woodland
-	1994m SW	Booth Wood	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 57 >**

ID	Location	Name	Local Authority name
1	9m S	South and West Yorkshire	Barnsley
3	188m SE	South and West Yorkshire	Sheffield
-	1818m S	South and West Yorkshire	Sheffield

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

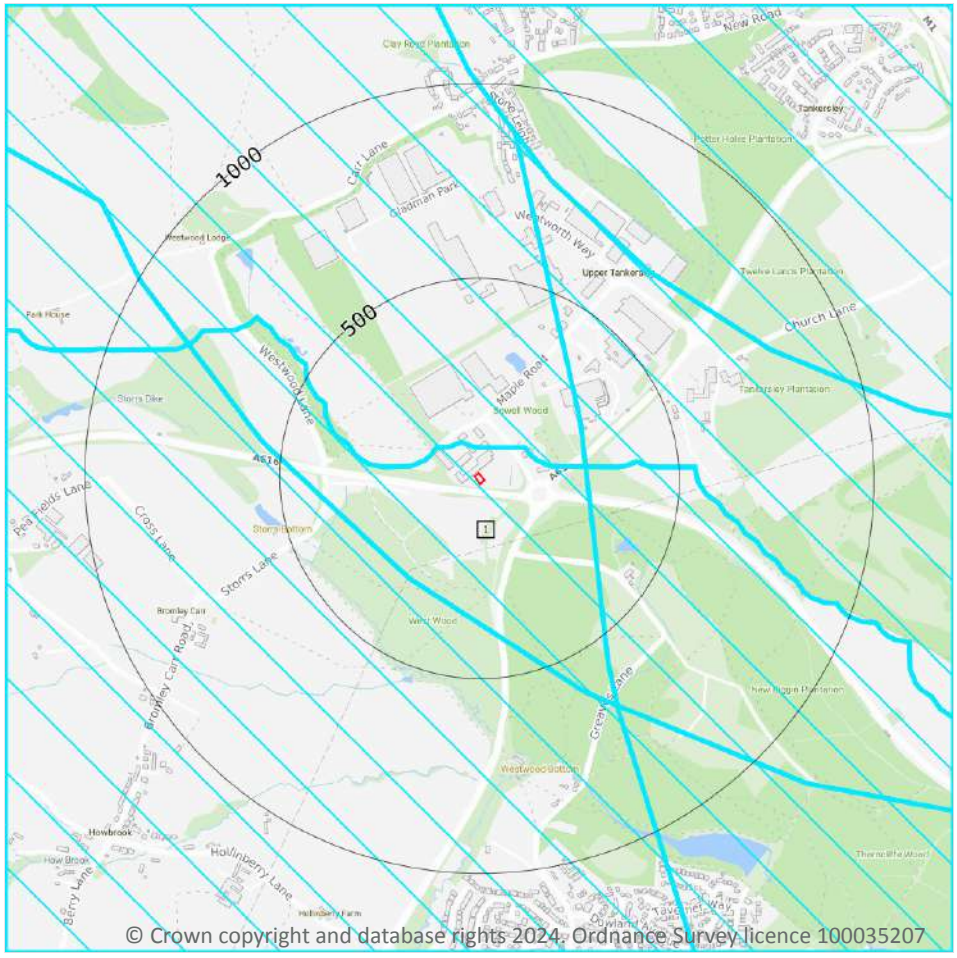
Records within 2000m	4

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	**Blackburn Brook from Source to River Don NVZ**	**Surface Water**	**261**	**Existing**
115m N	River Dearne NVZ	Surface Water	278	Existing
532m E	Blackburn Brook from Source to River Don NVZ	Surface Water	261	Existing
539m E	River Dearne NVZ	Surface Water	278	Existing

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

SSSI Impact Zones and Units



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

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 63 >**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Airports, helipads and other aviation proposals. 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. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t. Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	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	1

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

Features are displayed on the Agricultural designations map on **page 67 >**

ID	Location	Classification	Description
1	On site	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	17

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.

Features are displayed on the Agricultural designations map on **page 67 >**

ID	Location	Description	Reference	Application date
2	8m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
3	21m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	30m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	48m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
6	51m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
7	82m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
8	129m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
9	130m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
10	132m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
11	164m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
12	171m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
A	177m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
A	180m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
13	191m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
14	192m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
15	242m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-

ID	Location	Description	Reference	Application date
16	247m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	**1**

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

Location	Reference	Scheme	Start Date	End date
182m SE	AG00317183	Higher Level Stewardship	01/10/2010	30/09/2023

This data is sourced from Natural England.

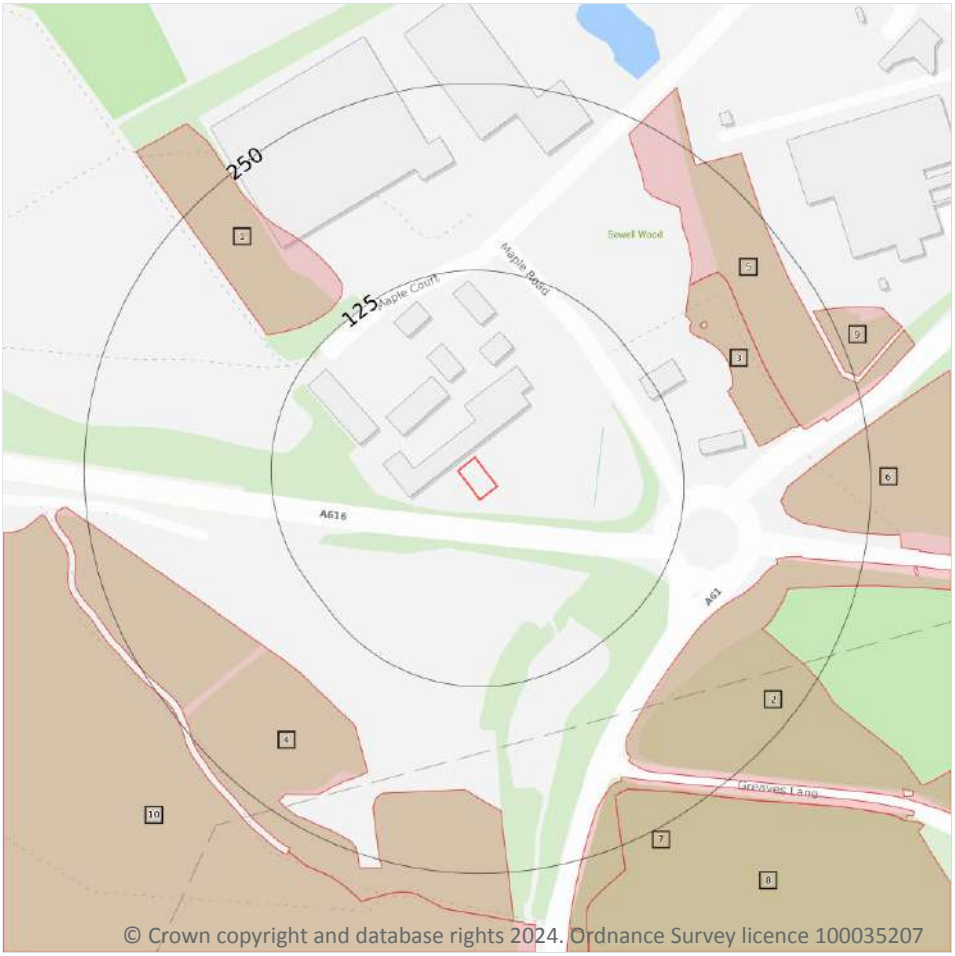
12.5 Countryside Stewardship Schemes

Records within 250m	**0**

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

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

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

13.1 Priority Habitat Inventory

Records within 250m	10

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 70 >**

ID	Location	Main Habitat	Other habitats
1	137m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	165m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	166m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	167m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	184m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	190m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	208m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	217m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	242m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	248m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**0**

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	**0**

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

This data is sourced from Natural England.

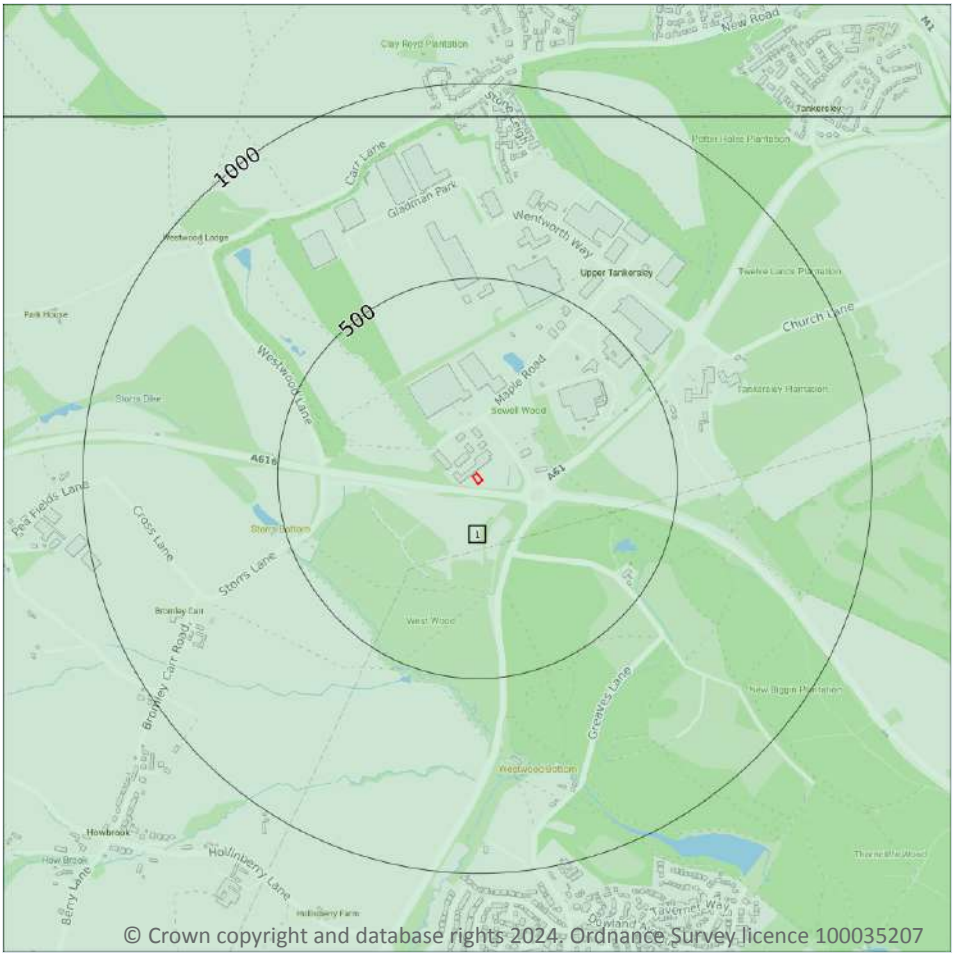
13.4 Limestone Pavement Orders

Records within 250m	**0**

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

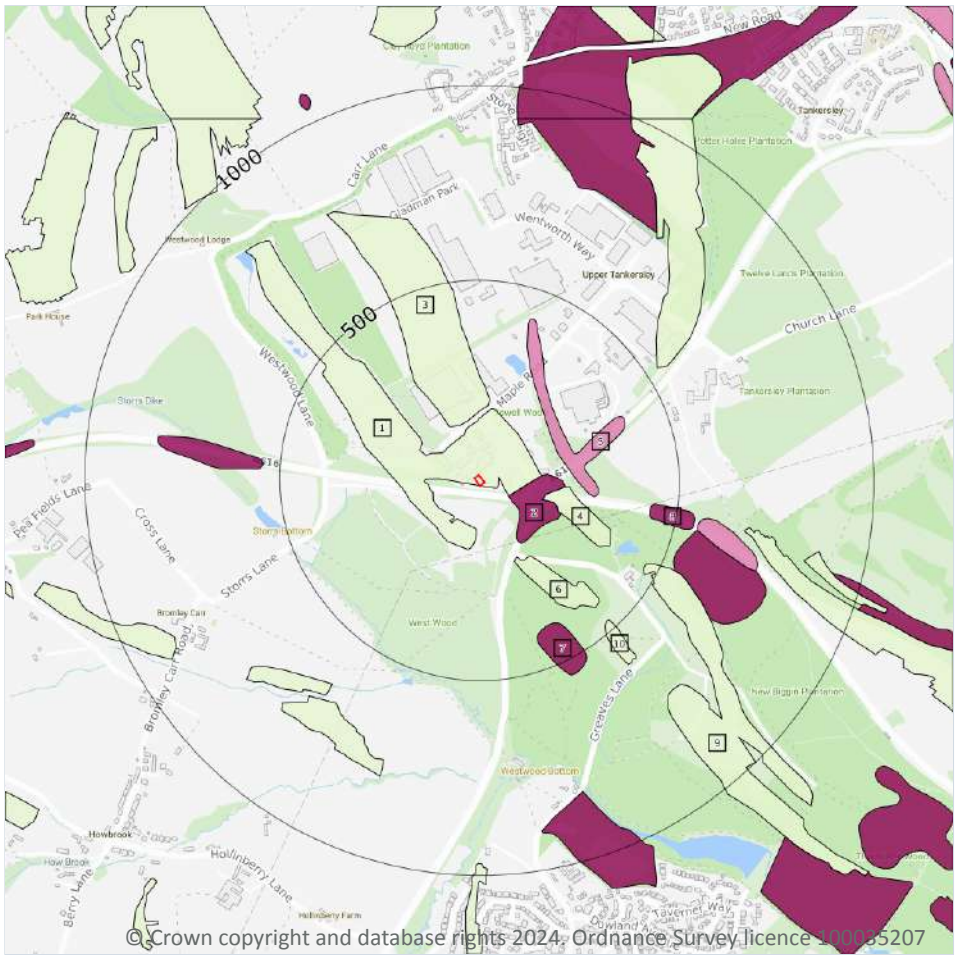
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 72 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SK39NW**

This data is sourced from the British Geological Survey.

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



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m	10

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 73 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**WMGR-ARTDP**	**Infilled Ground**	**Artificial Deposit**
2	71m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	137m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	155m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	202m E	WGR-VOID	Worked Ground (Undivided)	Void
6	206m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
7	398m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	431m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	464m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
10	475m SE	WMGR-ARTDP	Infilled Ground	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.

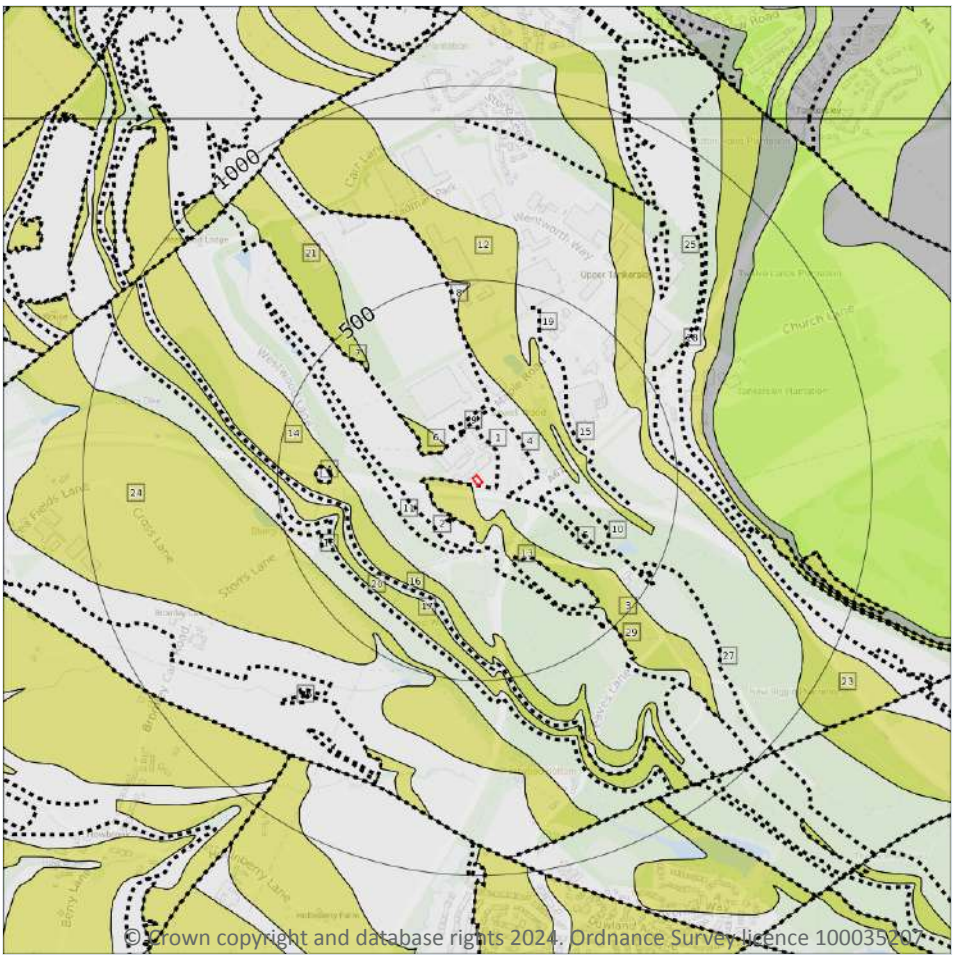
14.4 Landslip (10k)

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 **13**

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 76 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**
3	12m SW	PKR-SDST	Parkgate Rock - Sandstone	Langsettian Sub-age
6	104m NW	PKR-SDST	Parkgate Rock - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
12	193m NE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
14	263m SW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
17	328m SW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
18	356m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
A	361m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
21	386m NW	PKR-SDST	Parkgate Rock - Sandstone	Langsettian Sub-age
23	417m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
24	436m SW	SR-SDST	Silkstone Rock - Sandstone	Langsettian Sub-age
25	446m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
26	461m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m **18**

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.

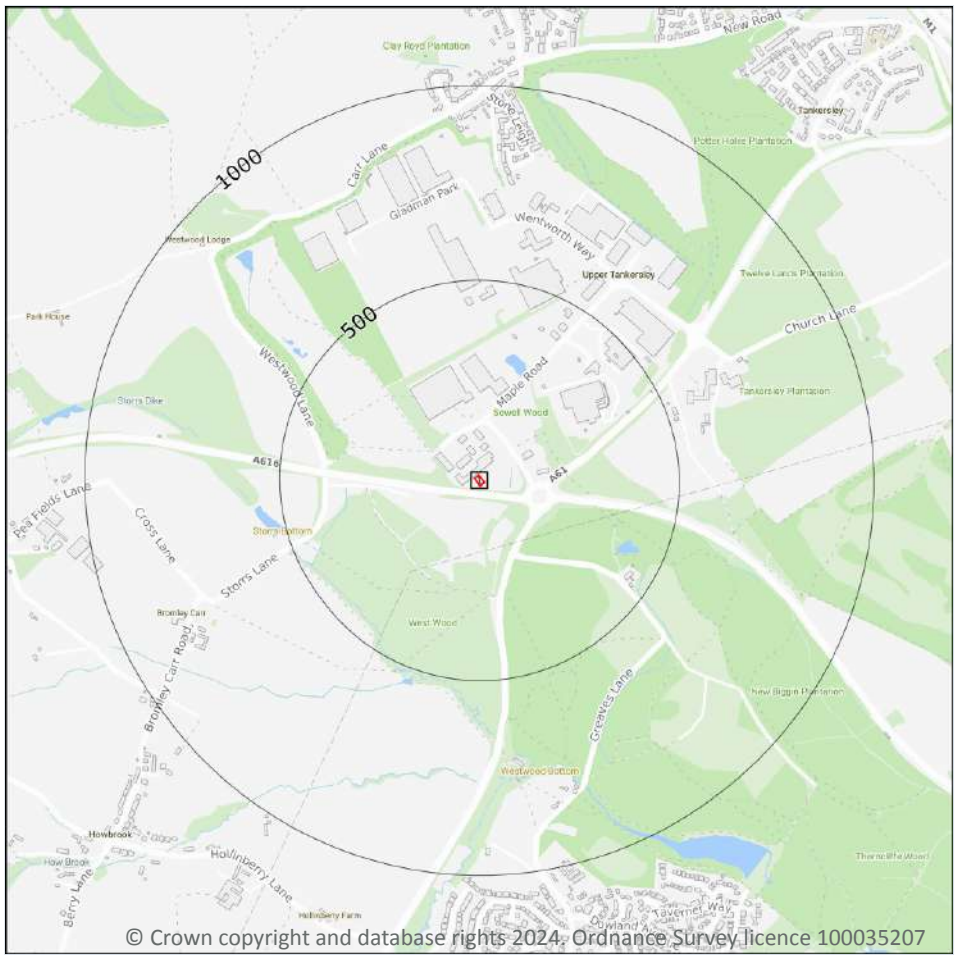
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 76 >**

ID	Location	Category	Description
2	**On site**	**ROCK**	**Coal seam, observed**
4	71m SE	ROCK	Coal seam, observed
5	71m SE	ROCK	Coal seam, inferred
7	104m NW	ROCK	Coal seam, observed
8	111m N	ROCK	Coal seam, observed
9	111m N	ROCK	Coal seam, observed
10	155m E	ROCK	Coal seam, observed

ID	Location	Category	Description
11	160m S	ROCK	Coal seam, inferred
13	206m SE	ROCK	Coal seam, observed
15	266m NE	ROCK	Coal seam, inferred
16	310m SW	ROCK	Coal seam, inferred
A	361m W	ROCK	Coal seam, inferred
19	371m NE	ROCK	Coal seam, observed
20	376m W	ROCK	Coal seam, inferred
22	408m W	ROCK	Coal seam, inferred
27	464m SE	ROCK	Coal seam, observed
28	464m E	ROCK	Coal seam, inferred
29	475m SE	ROCK	Coal seam, observed

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

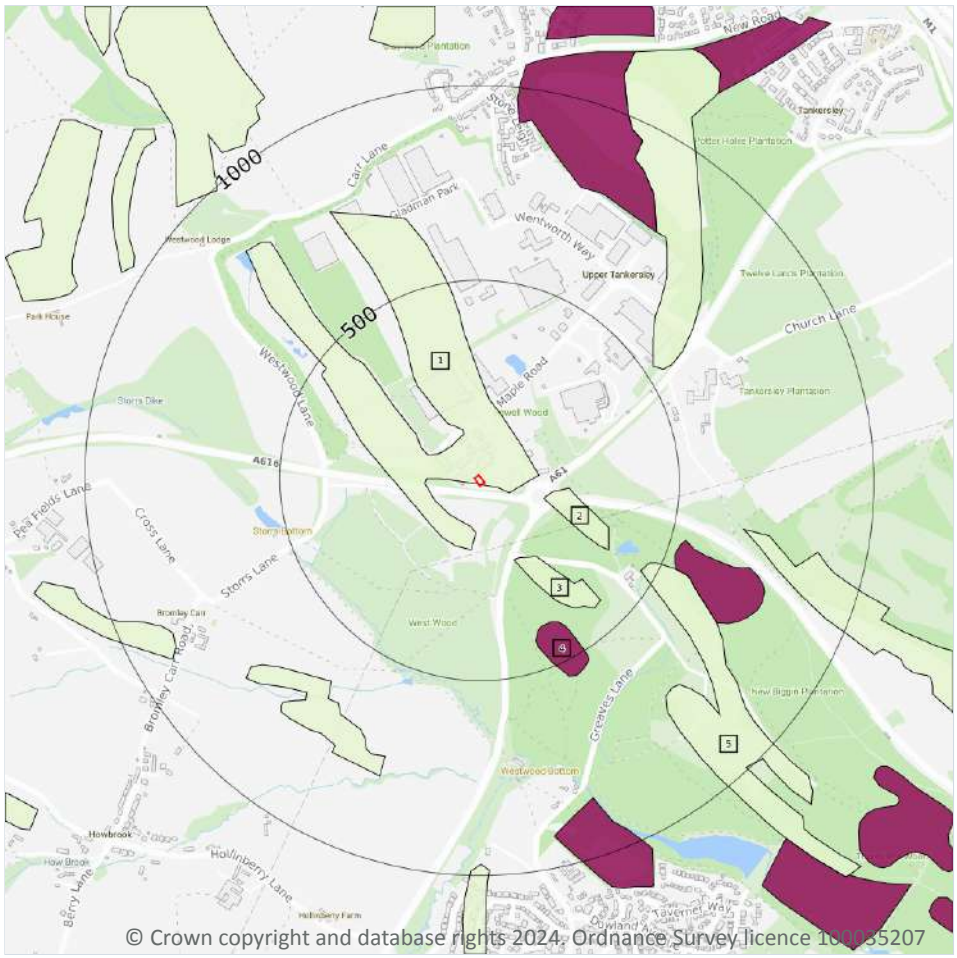
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 79 >**

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	5

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 80 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**WMGR-ARTDP**	**INFILLED GROUND**	**ARTIFICIAL DEPOSIT**
2	157m E	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	208m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
4	393m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

ID	Location	LEX Code	Description	Rock description
5	460m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	**1**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Very High**	**Low**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

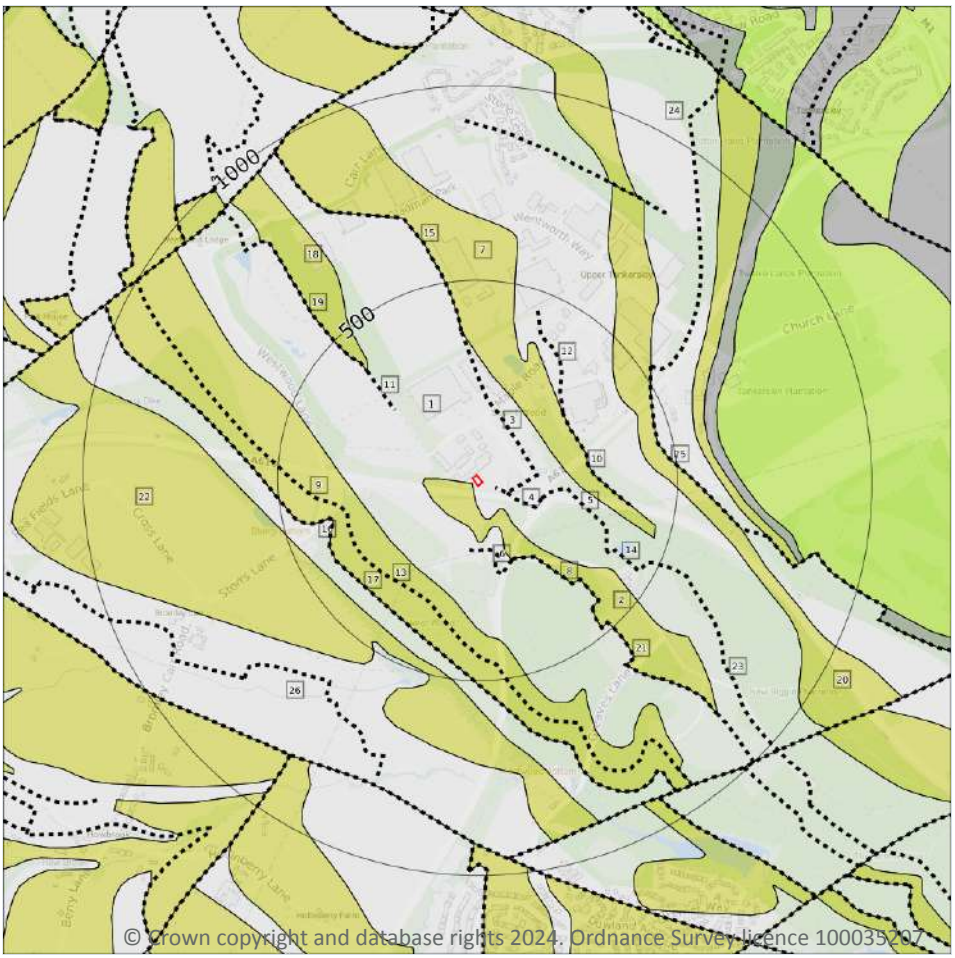
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	10

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 83 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSS**	**PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE**	**WESTPHALIAN**
2	9m SW	PKR-SDST	PARKGATE ROCK - SANDSTONE	WESTPHALIAN
7	190m NE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
9	260m SW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
16	373m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	387m NW	PKR-SDST	PARKGATE ROCK - SANDSTONE	WESTPHALIAN
20	415m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
22	434m SW	SR-SDST	SILKSTONE ROCK - SANDSTONE	WESTPHALIAN
24	461m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
26	478m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **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 SW	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m **16**

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

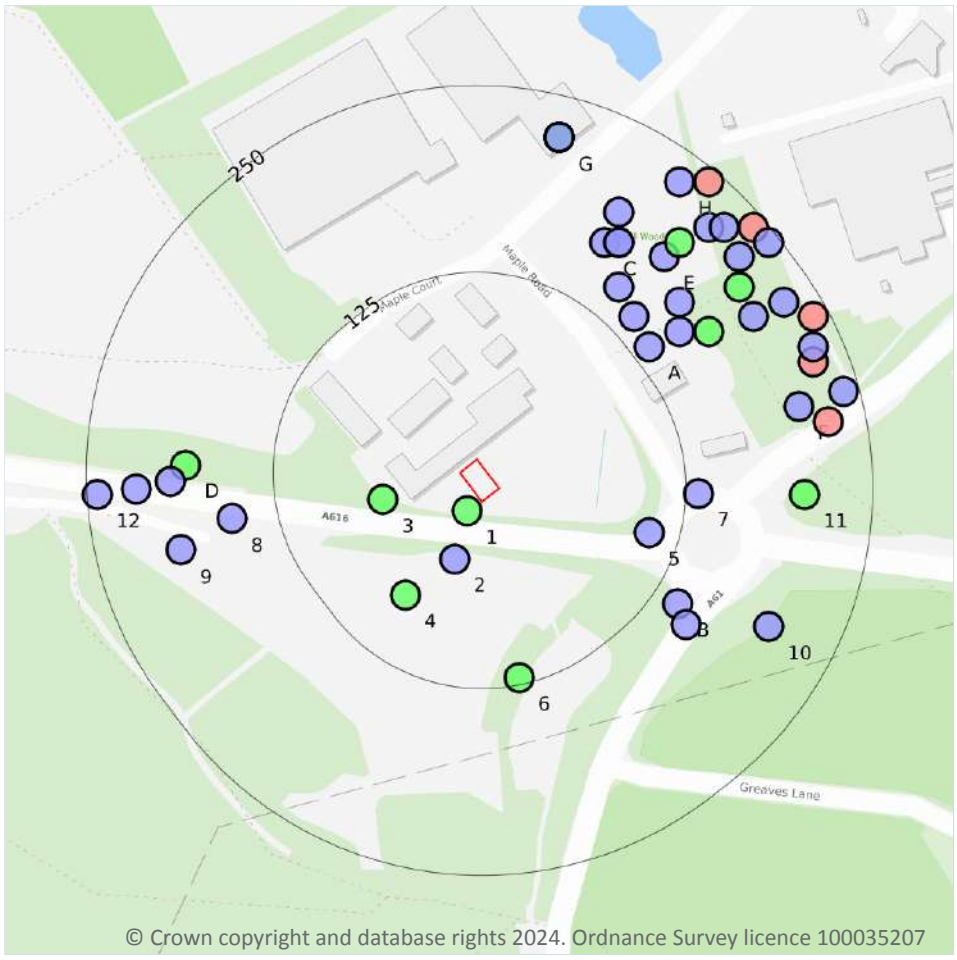
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 83 >**

ID	Location	Category	Description
3	35m E	ROCK	Coal seam, inferred

ID	Location	Category	Description
4	69m E	ROCK	Coal seam, inferred
5	157m E	ROCK	Coal seam, inferred
6	165m S	ROCK	Coal seam, inferred
8	208m SE	ROCK	Coal seam, inferred
10	264m NE	ROCK	Coal seam, inferred
11	266m NW	ROCK	Coal seam, inferred
12	272m NE	ROCK	Coal seam, inferred
13	317m SW	ROCK	Coal seam, inferred
14	362m SE	ROCK	Coal seam, inferred
15	369m N	ROCK	Coal seam, inferred
17	373m W	ROCK	Coal seam, inferred
19	387m NW	ROCK	Coal seam, inferred
21	428m SE	ROCK	Coal seam, inferred
23	460m SE	ROCK	Coal seam, inferred
25	461m E	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	64

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 86 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	12m SW	433538 399050	A616 WORTLEY TO M1 BH624	16.85	N	215549 ↗
2	42m S	433530 399018	A616 WORTLEY TO M1 TP716	1.7	N	215548 ↗
3	55m W	433482 399058	A616 WORTLEY TO M1 BH622	17.82	N	215546 ↗

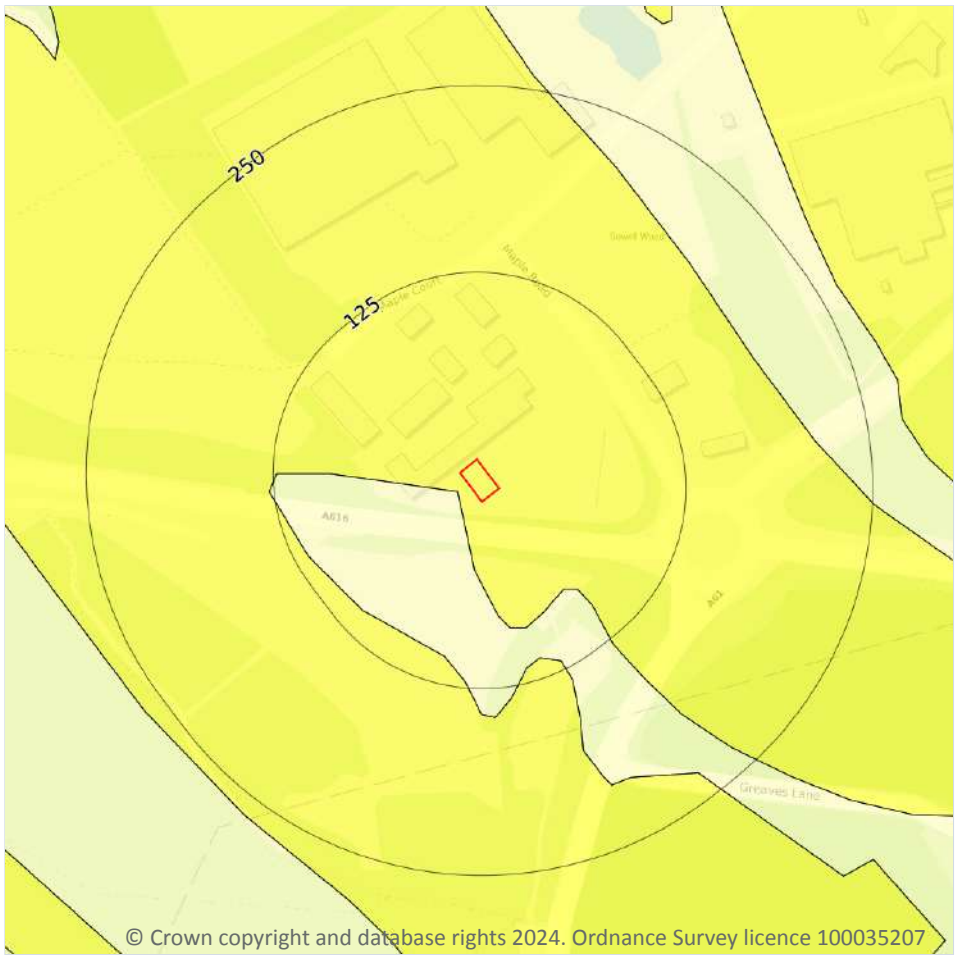
ID	Location	Grid reference	Name	Length	Confidential	Web link
4	81m SW	433497 398994	A616 WORTLEY TO M1 BH623	16.38	N	215547 ↗
5	105m E	433660 399036	A616 WORTLEY TO M1 BH625	10.0	N	215550 ↗
6	120m S	433573 398939	MANCHESTER-SHEFFIELD NEW ROUTE BORE NO.2BD34 N.W.R	16.0	N	215498 ↗
7	134m E	433693 399062	A616 WORTLEY TO M1 TP739	1.4	N	215553 ↗
A	137m NE	433660 399160	TANKERSLEY,SHEFFIELD TT 1A	4.0	N	215750 ↗
A	142m NE	433650 399180	TANKERSLEY,SHEFFIELD TP 1	3.0	N	215735 ↗
B	142m SE	433679 398988	A616 WORTLEY TO M1 TP717	3.5	N	215551 ↗
A	150m NE	433640 399200	TANKERSLEY,SHEFFIELD TP 2	3.0	N	215736 ↗
B	155m SE	433685 398974	A616 WORTLEY TO M1 TP744	2.8	N	215552 ↗
8	156m W	433381 399045	A616 WORTLEY TO M1 TP715	3.3	N	215545 ↗
A	159m NE	433680 399170	TANKERSLEY,SHEFFIELD TT 1B	3.0	N	215751 ↗
C	168m NE	433630 399230	TANKERSLEY,SHEFFIELD TT 4A	4.0	N	215752 ↗
A	171m NE	433680 399190	TANKERSLEY,SHEFFIELD TP 3	3.0	N	215737 ↗
C	174m NE	433640 399230	TANKERSLEY,SHEFFIELD TT 4B	1.0	N	215753 ↗
C	174m NE	433640 399230	TANKERSLEY,SHEFFIELD 1	7.0	N	215723 ↗
A	175m NE	433700 399170	TANKERSLEY,SHEFFIELD 2	23.0	N	215724 ↗
D	184m W	433350 399081	A616 WORTLEY TO M1 BH621	15.0	N	215544 ↗
E	184m NE	433670 399220	TANKERSLEY,SHEFFIELD TP 4	3.0	N	215738 ↗
C	191m NE	433640 399250	TANKERSLEY,SHEFFIELD TP 5	3.0	N	215739 ↗
9	194m W	433347 399024	A616 WORTLEY TO M1 BH620	10.0	N	215543 ↗
D	194m W	433340 399070	A616 WORTLEY TO M1 TP748	3.7	N	215542 ↗
E	198m NE	433680 399230	TANKERSLEY,SHEFFIELD 3	21.0	N	215725 ↗
10	203m SE	433740 398973	A616 WORTLEY TO M1 BH629	10.0	N	215554 ↗
11	205m E	433764 399061	A616 WORTLEY TO M1 BH628	18.38	N	215555 ↗
E	206m NE	433730 399180	TANKERSLEY,SHEFFIELD TP 6	3.0	N	215740 ↗
F	208m E	433760 399120	TANKERSLEY,SHEFFIELD TP 10	3.0	N	215744 ↗
E	209m NE	433720 399200	TANKERSLEY,SHEFFIELD 4	24.0	N	215726 ↗
D	217m W	433317 399065	A616 WORTLEY TO M1 TP747	4.3	N	215541 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
E	220m NE	433700 399240	TANKERSLEY,SHEFFIELD TP 7	3.0	N	215741 ↗
E	221m NE	433720 399220	TANKERSLEY,SHEFFIELD TT 7	3.0	N	215755 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T2	3.0	N	215596 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK 4	10.0	N	215610 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T3	3.0	N	215597 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK P3	31.0	N	215613 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T6	2.0	N	215600 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T10	3.0	N	215604 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T1	1.0	N	215595 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T4	3.0	N	215598 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK 3	9.0	N	215609 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T11	2.0	N	215605 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T12	2.0	N	215606 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T8	4.0	N	215602 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T5	3.0	N	215599 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK 1	5.0	N	215607 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK P1	25.0	N	215611 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK 2	11.0	N	215608 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T7	4.0	N	215601 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK P2	30.0	N	215612 ↗
G	222m N	433600 399300	WENTWORTH INDUST' PARK TP T9	1.0	N	215603 ↗
F	225m E	433780 399110	TANKERSLEY,SHEFFIELD 7	42.0	N	215729 ↗
E	227m NE	433710 399240	TANKERSLEY,SHEFFIELD TT 9	4.0	N	215756 ↗
E	227m E	433770 399150	TANKERSLEY,SHEFFIELD 8	45.0	N	215730 ↗
E	228m NE	433750 399190	TANKERSLEY,SHEFFIELD TT 6	3.0	N	215754 ↗
H	229m NE	433680 399270	TANKERSLEY,SHEFFIELD TP 8	3.0	N	215742 ↗
E	231m E	433770 399160	TANKERSLEY,SHEFFIELD TP 14	4.0	N	215747 ↗
F	239m E	433790 399130	TANKERSLEY,SHEFFIELD TP 13	4.0	N	215746 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
E	240m NE	433770 399180	TANKERSLEY,SHEFFIELD 9	47.0	N	215731 ↗
E	242m NE	433730 399240	TANKERSLEY,SHEFFIELD 6	45.0	N	215728 ↗
H	242m NE	433700 399270	TANKERSLEY,SHEFFIELD 5	40.0	N	215727 ↗
12	243m W	433291 399061	A616 WORTLEY TO M1 TP749	3.8	N	215540 ↗
E	243m NE	433740 399230	TANKERSLEY,SHEFFIELD TP 9	3.0	N	215743 ↗

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

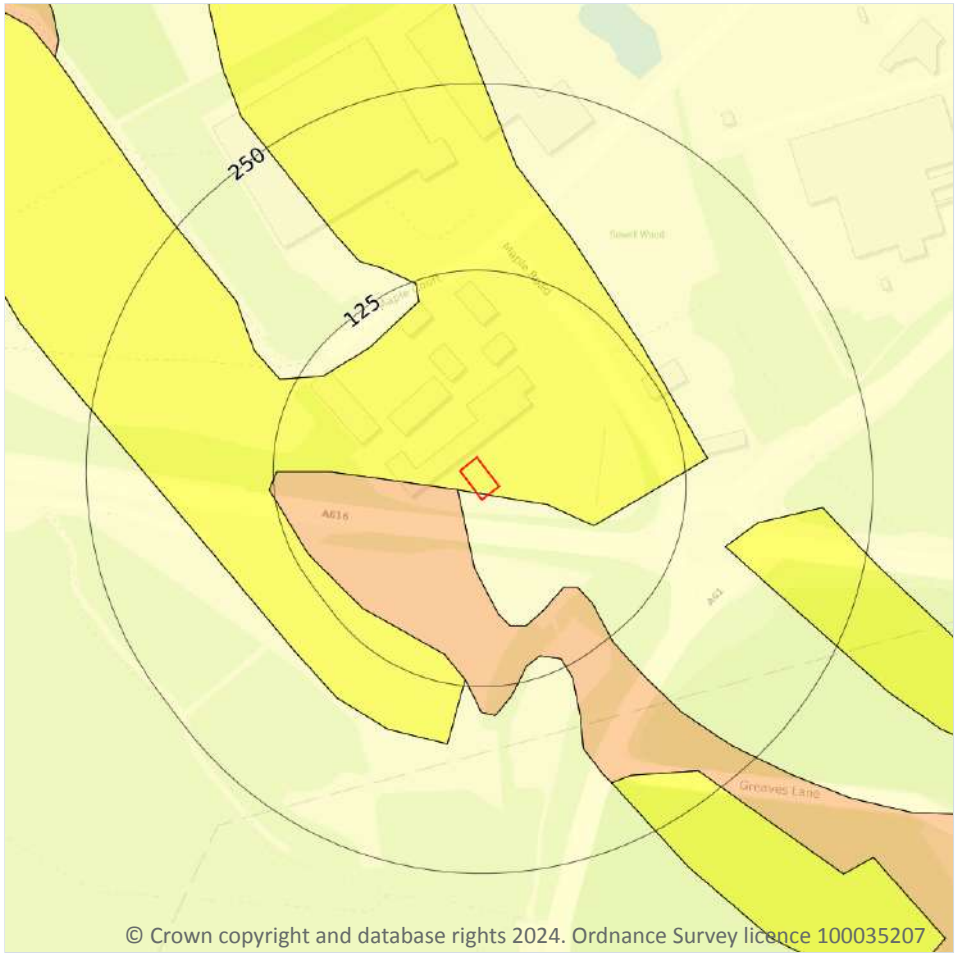
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 90 >**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**
9m SW	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	3

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.

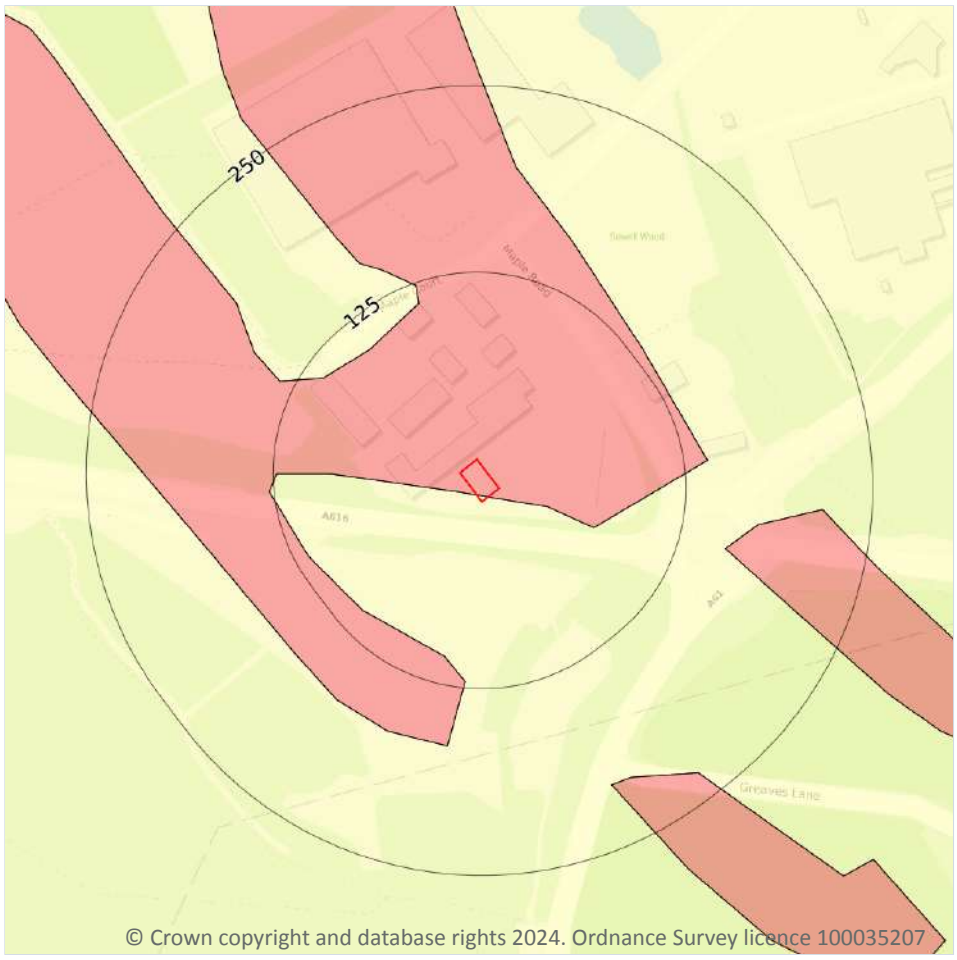
Features are displayed on the Natural ground subsidence - Running sands map on **page 91 >**

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.**

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**
9m SW	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	2

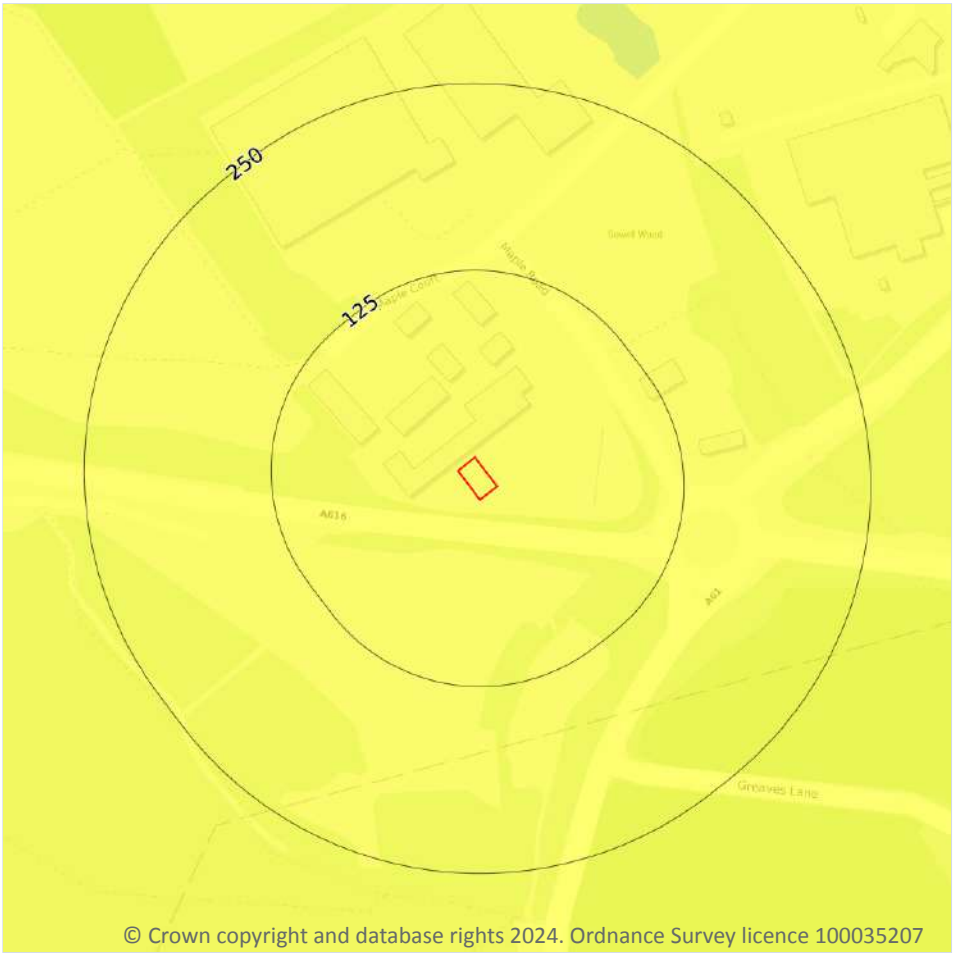
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 93 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
On site	**Moderate**	**Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

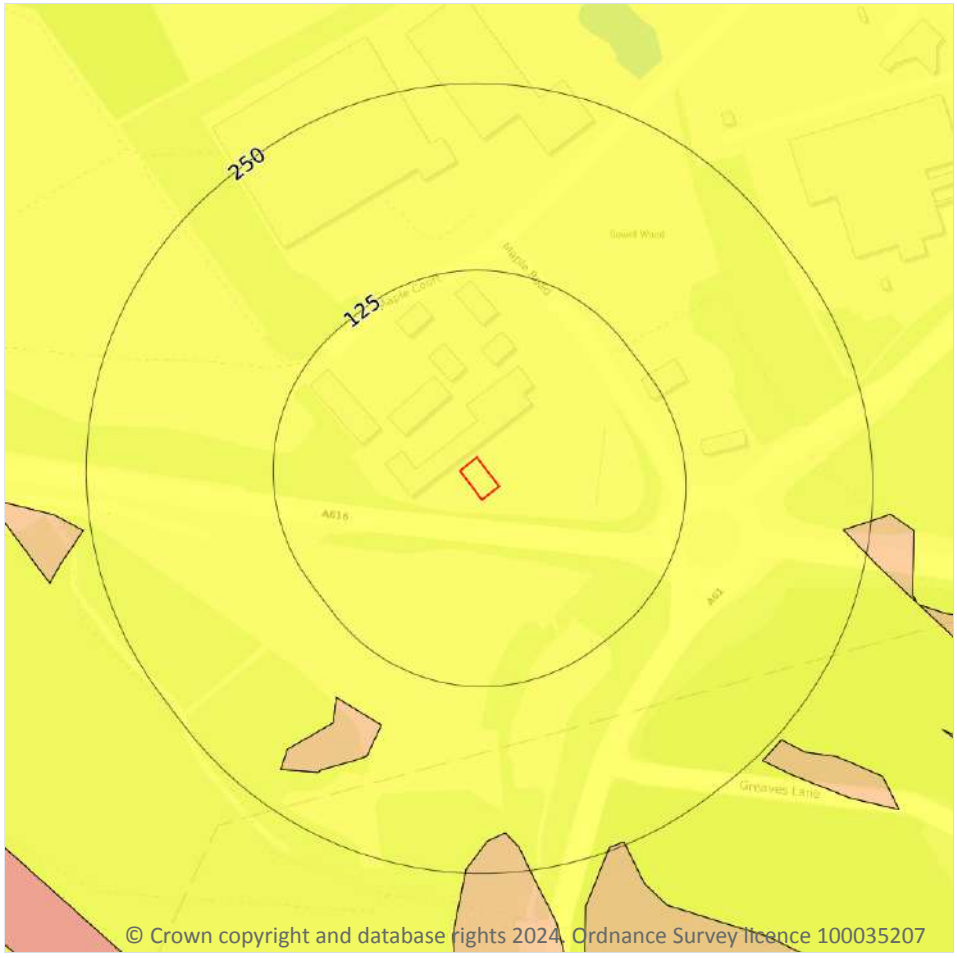
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 95 >**

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 96 >**

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



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

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

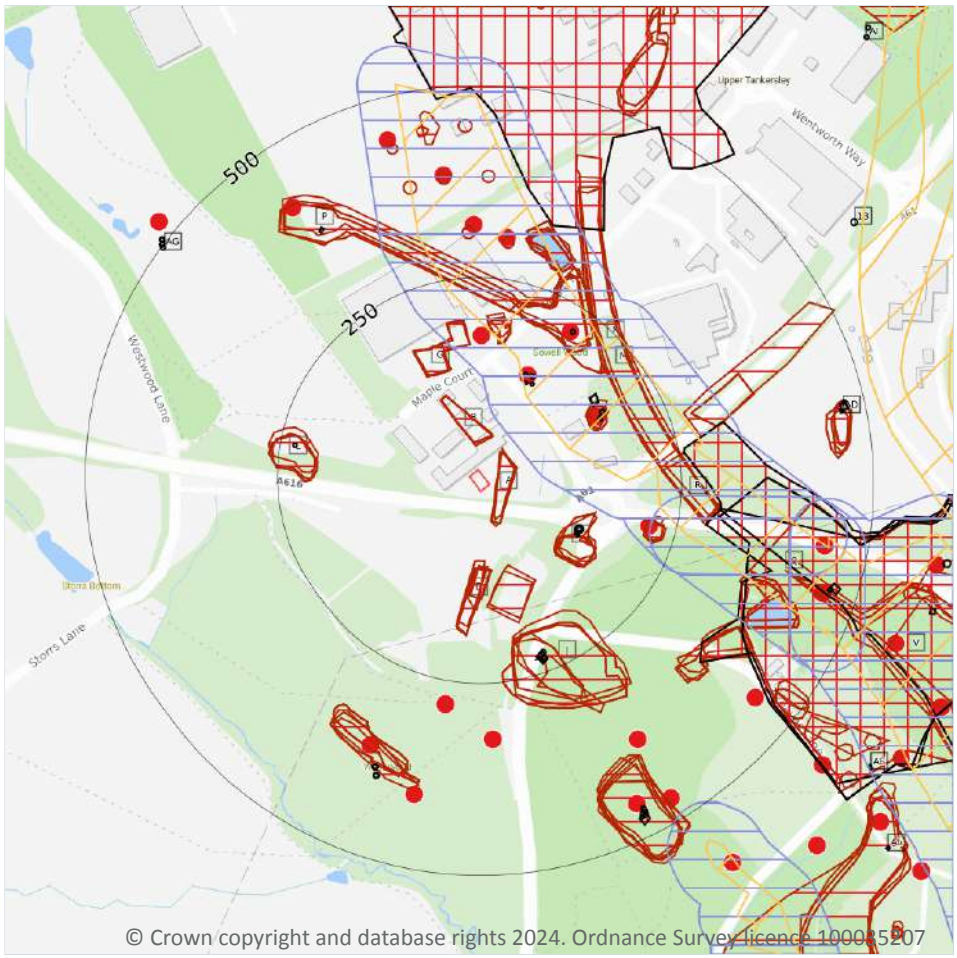
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 97 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	20

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

Features are displayed on the Mining and ground workings map on **page 99 >**

ID	Location	Details	Description
F	138m NE	Name: Sowell Pit Address: Tankersley, 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
H	165m NE	Name: Catnob Pit Address: Tankersley, 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
I	174m N	Name: Sowell Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
O	214m E	Name: West Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
C	215m NE	Name: Sowell Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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

ID	Location	Details	Description
4	280m S	Name: Westwood Colliery Address: Tankersley, 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
K	304m N	Name: West Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
K	319m N	Name: West Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
5	322m S	Name: West Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
W	360m S	Name: West Wood Address: Tankersley, HOYLAND, South Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

ID	Location	Details	Description
9	382m SE	Name: West Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
Y	385m N	Name: West Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
10	403m S	Name: Westwood Address: Tankersley, HOYLAND, South Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
Z	417m NW	Name: Balance Pit Address: Tankersley, 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
S	442m E	Name: Tankersley Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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

ID	Location	Details	Description
AC	443m SE	Name: West Wood Ironstone Pits Address: High Green, Chapeltown, SHEFFIELD, South Yorkshire Commodity: Ironstone 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
AB	444m N	Name: West Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
AA	454m SE	Name: West Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
S	455m E	Name: Tankersley Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone 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
AA	469m SE	Name: West Wood Ironstone Pits Address: Tankersley, HOYLAND, South Yorkshire Commodity: Ironstone Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	76

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

Features are displayed on the Mining and ground workings map on **page 99 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	8m E	Unspecified Heap	1938	1:10560
A	10m E	Unspecified Heap	1948	1:10560
A	10m E	Unspecified Heap	1948	1:10560
A	10m E	Unspecified Heap	1951	1:10560
B	31m N	Ponds	1948	1:10560
B	35m N	Pond	1938	1:10560
B	35m N	Pond	1903	1:10560
B	35m N	Pond	1891	1:10560
D	91m S	Unspecified Heap	1951	1:10560
D	97m S	Unspecified Pit	1992	1:10000
D	97m S	Unspecified Pit	1980	1:10000
D	99m S	Unspecified Pit	1938	1:10560
D	99m S	Unspecified Pit	1903	1:10560
D	100m S	Unspecified Pit	1948	1:10560
D	100m S	Unspecified Pit	1948	1:10560
D	100m S	Unspecified Pit	1966	1:10560
D	102m S	Cuttings	1980	1:10000
D	107m S	Cuttings	1966	1:10560
E	112m SE	Unspecified Heap	1951	1:10560
E	115m SE	Unspecified Heap	1948	1:10560
E	115m SE	Unspecified Heap	1948	1:10560
E	115m SE	Unspecified Heap	1938	1:10560
E	115m SE	Unspecified Heap	1903	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
E	115m SE	Unspecified Heap	1891	1:10560
E	119m SE	Unspecified Heap	1966	1:10560
E	119m SE	Unspecified Heap	1980	1:10000
G	134m N	Pond	1891	1:10560
G	134m N	Ponds	1948	1:10560
G	136m N	Ponds	1938	1:10560
G	136m N	Ponds	1903	1:10560
H	151m NE	Unspecified Heap	1948	1:10560
H	151m NE	Unspecified Heap	1948	1:10560
H	153m NE	Unspecified Heap	1938	1:10560
H	153m NE	Unspecified Heap	1903	1:10560
H	158m NE	Unspecified Heap	1951	1:10560
I	166m N	Pond	1948	1:10560
I	168m N	Pond	1938	1:10560
I	175m N	Pond	1951	1:10560
J	185m S	Refuse Heap	1951	1:10560
K	191m NE	Refuse Heap	1938	1:10560
K	191m NE	Refuse Heap	1903	1:10560
K	191m NE	Refuse Heap	1891	1:10560
J	194m S	Refuse Heap	1948	1:10560
J	194m S	Refuse Heap	1948	1:10560
C	194m NE	Refuse Heap	1948	1:10560
C	194m NE	Refuse Heap	1948	1:10560
J	195m S	Refuse Heap	1938	1:10560
J	195m S	Refuse Heap	1903	1:10560
J	195m S	Refuse Heap	1891	1:10560
J	196m S	Refuse Heap	1966	1:10560
C	198m NE	Unspecified Heap	1966	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
C	198m NE	Unspecified Heap	1980	1:10000
L	199m W	Refuse Heap	1948	1:10560
L	199m W	Refuse Heap	1948	1:10560
L	199m W	Refuse Heap	1951	1:10560
M	201m NE	Cuttings	1938	1:10560
M	201m NE	Cuttings	1903	1:10560
J	202m S	Refuse Heap	1980	1:10000
L	202m W	Refuse Heap	1938	1:10560
L	202m W	Refuse Heap	1903	1:10560
L	202m W	Refuse Heap	1891	1:10560
N	202m NE	Cuttings	1891	1:10560
M	202m NE	Cuttings	1948	1:10560
K	205m NE	Refuse Heap	1951	1:10560
N	207m NE	Cuttings	1951	1:10560
O	210m E	Old Ironstone Pit	1903	1:10560
O	210m E	Unspecified Heap	1938	1:10560
O	210m E	Unspecified Heap	1891	1:10560
P	210m N	Unspecified Heap	1948	1:10560
P	210m N	Unspecified Heap	1948	1:10560
O	211m E	Unspecified Ground Workings	1948	1:10560
O	211m E	Unspecified Ground Workings	1948	1:10560
O	219m E	Unspecified Pit	1951	1:10560
R	225m E	Cuttings	1891	1:10560
R	230m E	Cuttings	1951	1:10560
J	231m S	Unspecified Heap	1992	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	**91**

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

Features are displayed on the Mining and ground workings map on **page 99 >**

ID	Location	Land Use	Year of mapping	Mapping scale
E	125m SE	Disused Air Shaft	1966	1:10560
E	125m SE	Disused Air Shaft	1980	1:10000
F	127m NE	Unspecified Old Shafts	1938	1:10560
F	127m NE	Unspecified Old Shafts	1903	1:10560
E	128m SE	Air Shaft	1951	1:10560
E	128m SE	Air Shaft	1938	1:10560
F	129m NE	Unspecified Old Shaft	1938	1:10560
F	129m NE	Unspecified Old Shafts	1903	1:10560
E	130m SE	Air Shaft	1903	1:10560
F	136m NE	Unspecified Old Shafts	1951	1:10560
F	137m NE	Unspecified Old Shafts	1951	1:10560
H	166m NE	Air Shaft	1938	1:10560
H	166m NE	Air Shaft	1903	1:10560
H	169m NE	Disused Air Shaft	1966	1:10560
H	169m NE	Air Shaft	1992	1:10000
H	169m NE	Disused Air Shaft	1980	1:10000
H	172m NE	Air Shaft	1951	1:10560
C	215m NE	Unspecified Old Shafts	1951	1:10560
J	221m S	Unspecified Old Shaft	1951	1:10560
J	222m S	Unspecified Disused Shaft	1966	1:10560
J	227m S	Unspecified Disused Shaft	1980	1:10000
L	228m W	Air Shaft	1903	1:10560
J	228m S	Unspecified Old Shaft	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
J	228m S	Unspecified Old Shaft	1903	1:10560
2	256m E	Colliery	1951	1:10560
V	287m E	Colliery	1938	1:10560
V	302m E	Colliery	1903	1:10560
V	302m E	Colliery	1891	1:10560
7	332m N	Colliery	1966	1:10560
Z	369m NW	Unspecified Old Shaft	1903	1:10560
W	381m S	Air Shaft	1966	1:10560
W	381m S	Air Shaft	1951	1:10560
W	381m S	Air Shaft	1992	1:10000
W	381m S	Air Shaft	1980	1:10000
W	391m S	Air Shaft	1938	1:10560
W	391m S	Air Shaft	1903	1:10560
AA	461m SE	Unspecified Old Shaft	1951	1:10560
S	461m E	Air Shaft	1951	1:10560
S	463m E	Disused Air Shaft	1966	1:10560
AA	466m SE	Unspecified Disused Shaft	1992	1:10000
AA	466m SE	Unspecified Disused Shaft	1980	1:10000
AD	466m E	Unspecified Shaft	1938	1:10560
AD	466m E	Unspecified Shaft	1903	1:10560
AA	467m SE	Unspecified Old Shaft	1938	1:10560
AD	468m E	Unspecified Disused Shaft	1966	1:10560
AD	468m E	Unspecified Disused Shaft	1992	1:10000
AD	468m E	Unspecified Disused Shaft	1980	1:10000
AA	470m SE	Unspecified Disused Shaft	1966	1:10560
AA	470m SE	Unspecified Old Shaft	1903	1:10560
AD	471m E	Unspecified Shaft	1951	1:10560
AG	495m NW	Unspecified Shaft	1903	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
AG	498m NW	Air Shaft	1938	1:10560
AG	502m NW	Air Shaft	1951	1:10560
13	581m NE	Air Shaft	1903	1:10560
V	596m E	Air Shaft	1938	1:10560
V	599m E	Unspecified Shafts	1980	1:10000
AE	615m SE	Air Shaft	1903	1:10560
-	623m E	Unspecified Shafts	1980	1:10000
-	669m N	Colliery	1891	1:10560
AL	700m SE	Unspecified Old Shaft	1903	1:10560
AI	754m NE	Unspecified Shaft	1938	1:10560
AI	754m NE	Air Shaft	1903	1:10560
AI	764m NE	Unspecified Shaft	1951	1:10560
-	767m S	Old Ironstone Pits	1938	1:10560
-	767m S	Old Ironstone Pits	1903	1:10560
-	819m S	Old Ironstone Pits	1938	1:10560
-	820m S	Old Ironstone Pits	1938	1:10560
-	824m NW	Colliery	1903	1:10560
-	825m NW	Colliery	1938	1:10560
-	829m NW	Colliery	1951	1:10560
-	852m NW	Colliery	1938	1:10560
-	852m NW	Colliery	1903	1:10560
-	852m NW	Colliery	1891	1:10560
-	852m S	Old Ironstone Pits	1938	1:10560
-	852m S	Old Ironstone Pits	1903	1:10560
-	870m S	Old Ironstone Pits	1938	1:10560
-	870m S	Old Ironstone Pits	1903	1:10560
-	883m S	Old Ironstone Pits	1903	1:10560
-	888m E	Old Ironstone Pits	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	888m E	Old Ironstone Pits	1903	1:10560
-	891m E	Old Ironstone Pits	1951	1:10560
-	897m E	Old Ironstone Pits	1951	1:10560
-	903m E	Old Ironstone Pits	1951	1:10560
-	914m S	Old Ironstone Pits	1938	1:10560
-	921m N	Colliery	1951	1:10560
-	952m E	Old Ironstone Pits	1951	1:10560
-	958m NE	Pumping Shaft	1903	1:10560
-	973m E	Old Ironstone Pits	1951	1:10560
-	990m SE	Old Ironstone Pits	1938	1:10560
-	993m SE	Old Ironstone Pits	1903	1:10560
-	995m E	Old Ironstone Pits	1951	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	7

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

Features are displayed on the Mining and ground workings map on **page 99 >**

ID	Location	Name	Commodity	Class	Likelihood
1	109m NE	Not available	Ironstone (bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
11	514m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AF	542m SE	Not available	Ironstone (bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AI	551m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
12	554m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AJ	609m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	690m S	Not available	Ironstone (bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	4

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

Features are displayed on the Mining and ground workings map on **page 99 >**

ID	Location	Mineral type	Mineral
C	59m NE	Metals	Ironstone
Q	216m E	Metals	Ironstone
V	397m E	Metals	Ironstone
AF	492m SE	Metals	Ironstone

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	28

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

Location	Mineral type
128m W	Metals

Location	Mineral type
183m SW	Metals
195m SW	Metals
238m S	Metals
255m S	Metals
288m S	Metals
313m S	Metals
328m S	Metals
337m S	Metals
356m S	Metals
372m W	Metals
376m SW	Metals
377m S	Metals
385m SE	Metals
388m S	Metals
414m S	Metals
414m S	Metals
414m S	Metals
414m S	Metals
414m S	Metals
415m S	Metals
415m S	Metals
420m S	Metals
432m S	Metals
440m S	Metals
451m S	Metals
465m S	Metals
468m S	Metals

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	1

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

Location	Mineral
374m S	Ironstone

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

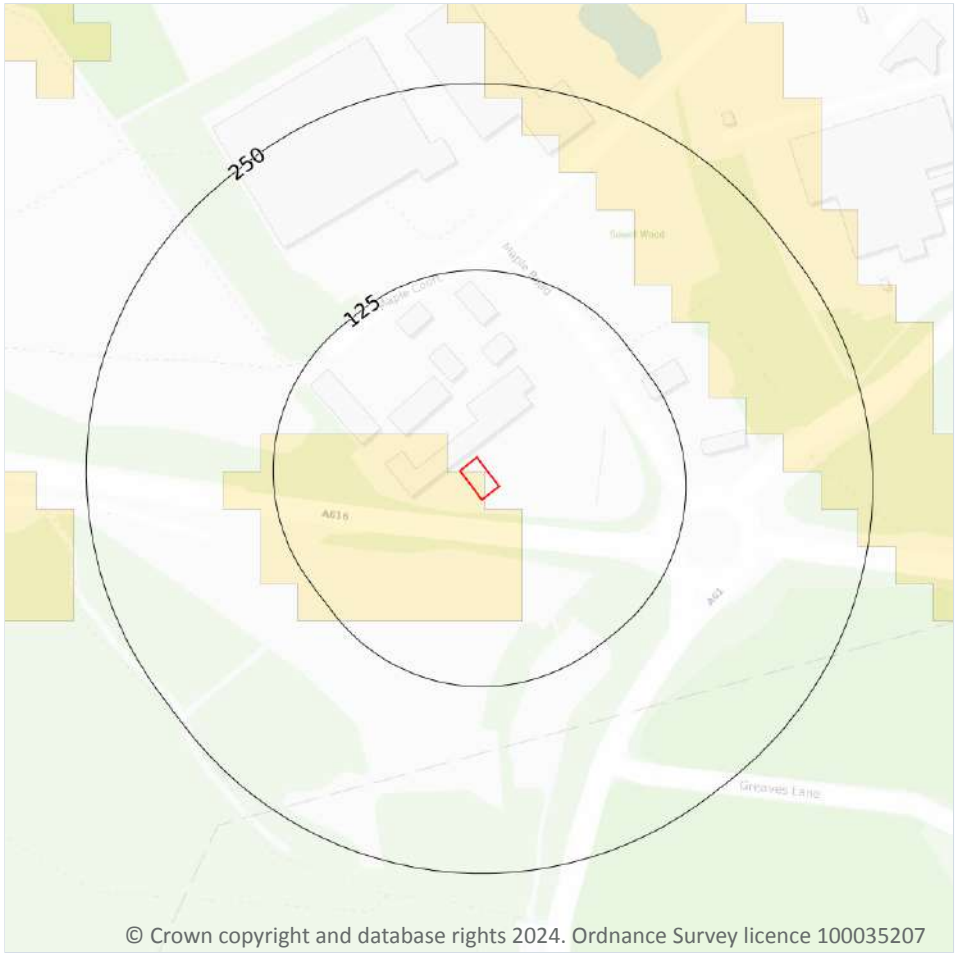
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 Radon



© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

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

20.1 Radon

Records on site	2

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

Features are displayed on the Radon map on **page 118 >**

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

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	4

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
22m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
34m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



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

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	4

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 122 >**

Location	Land Use	Year of mapping	Mapping scale
191m E	Railway Sidings	1966	10560
213m NE	Railway Sidings	1956	2500
230m E	Railway Sidings	1951	10560
236m E	Railway Sidings	1948	10560

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	1

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

Features are displayed on the Railway infrastructure and projects map on **page 122 >**

Location	Description
226m NE	Historic

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 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.

22.9 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.

22.10 HS2

Records within 500m	0

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

is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

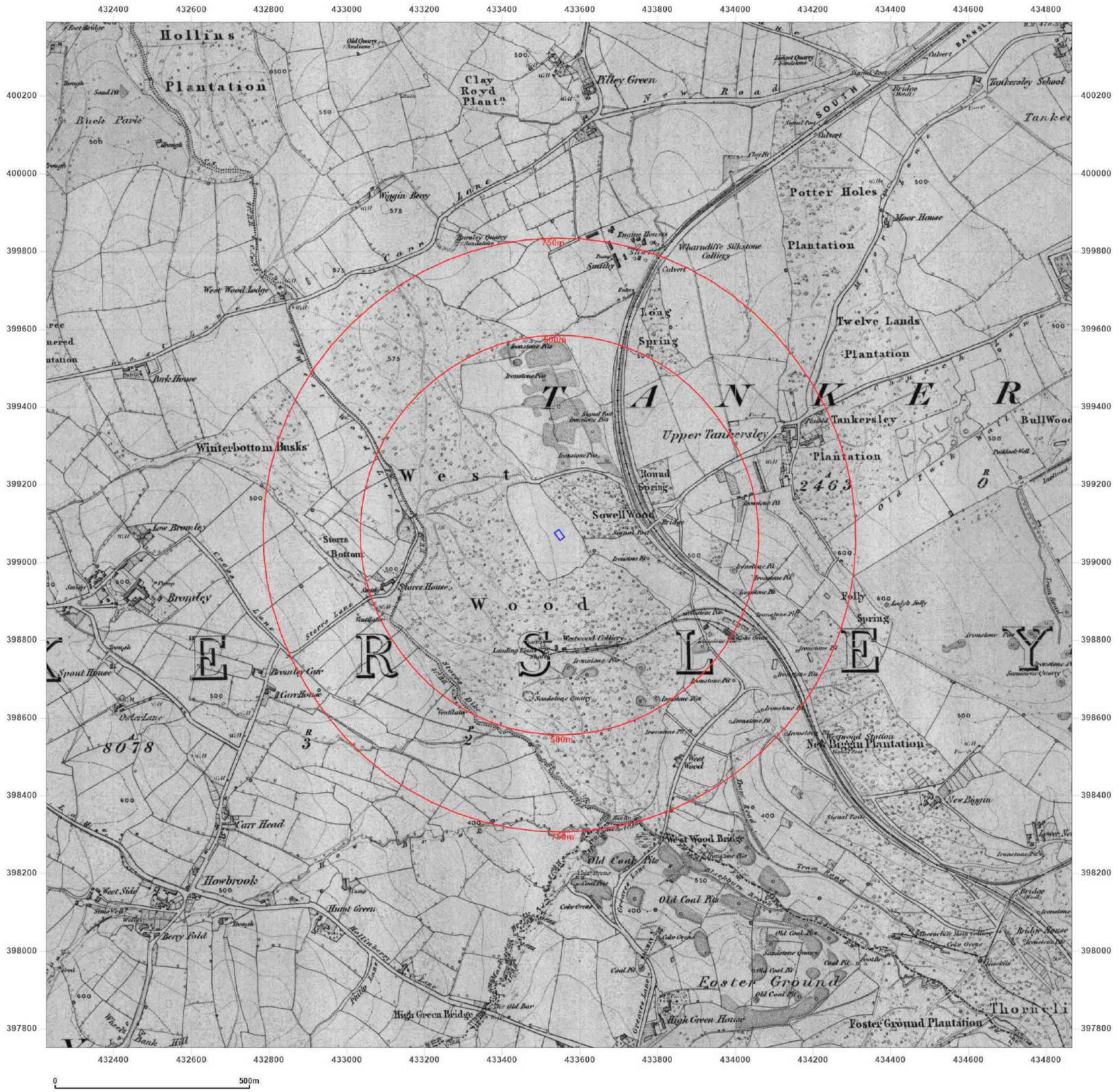
This data is sourced from HS2 ltd.

Data providers

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

Terms and conditions

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: County Series

Map date: **1855**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

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

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

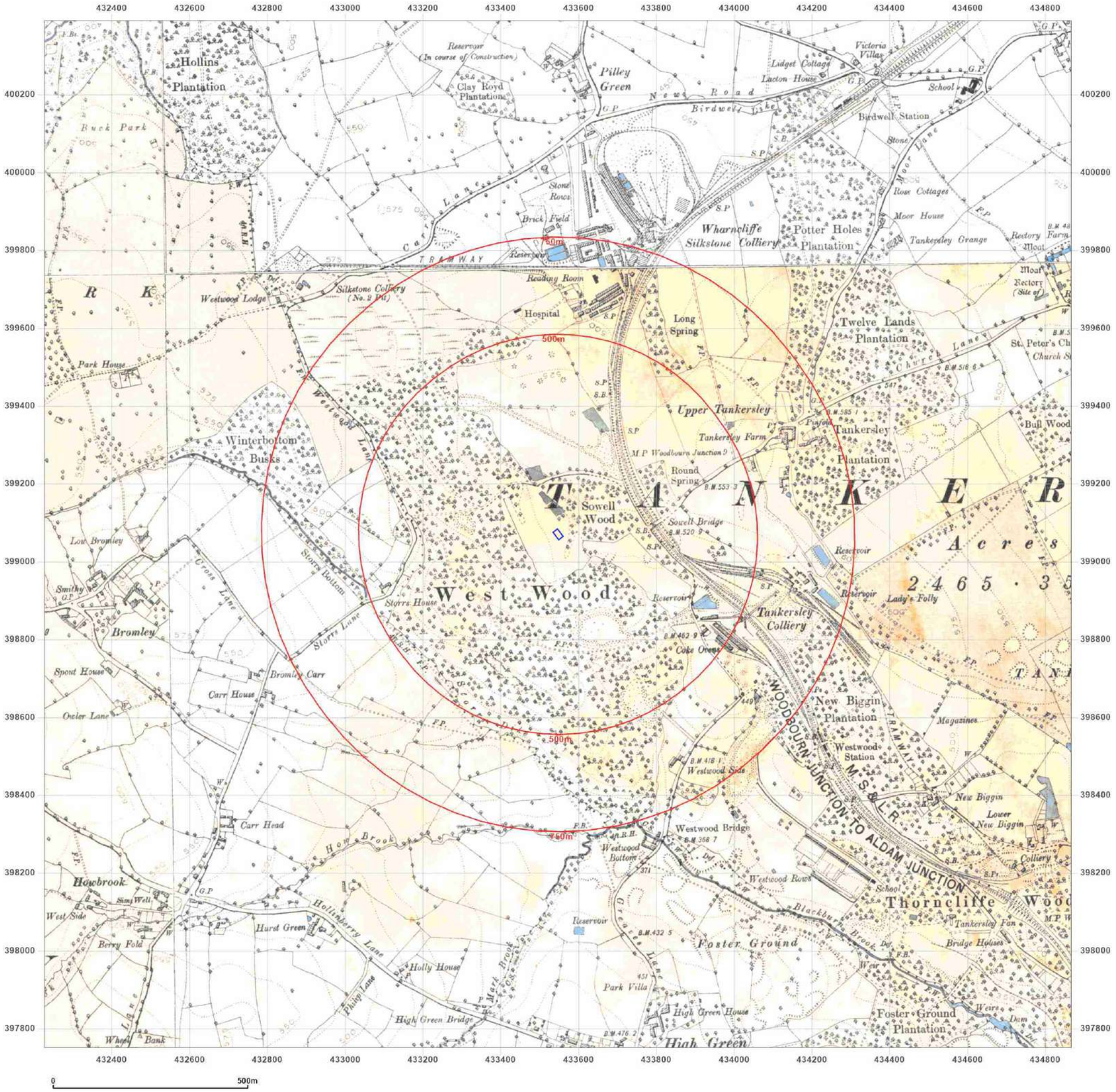
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: County Series

Map date: **1891-1894**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

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

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

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

Surveyed 1891
Revised N/A
Edition 1894
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

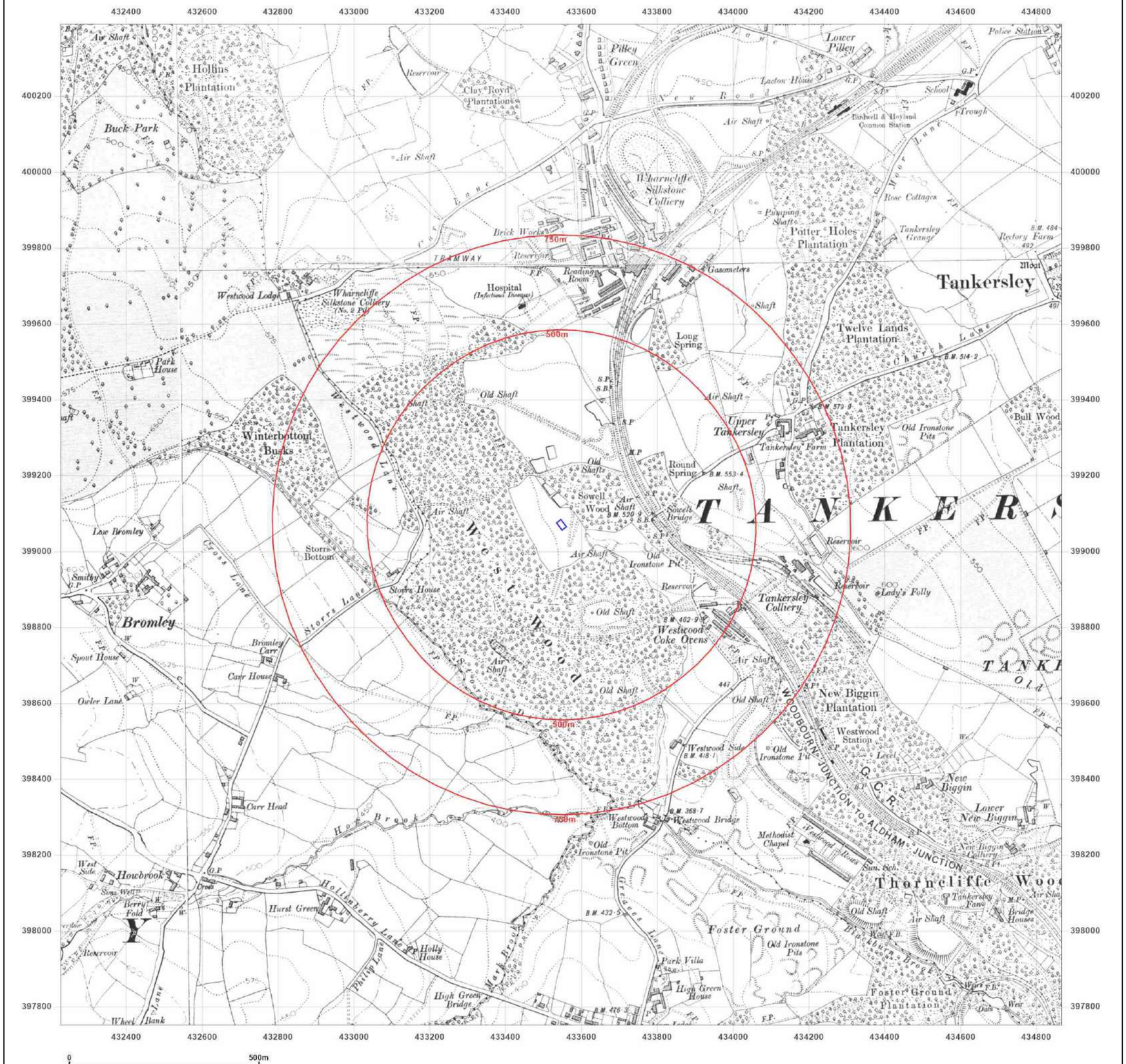
Powered by OS

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: County Series

Map date: **1903**

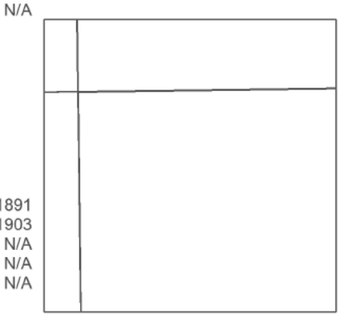
Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

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

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



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

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

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

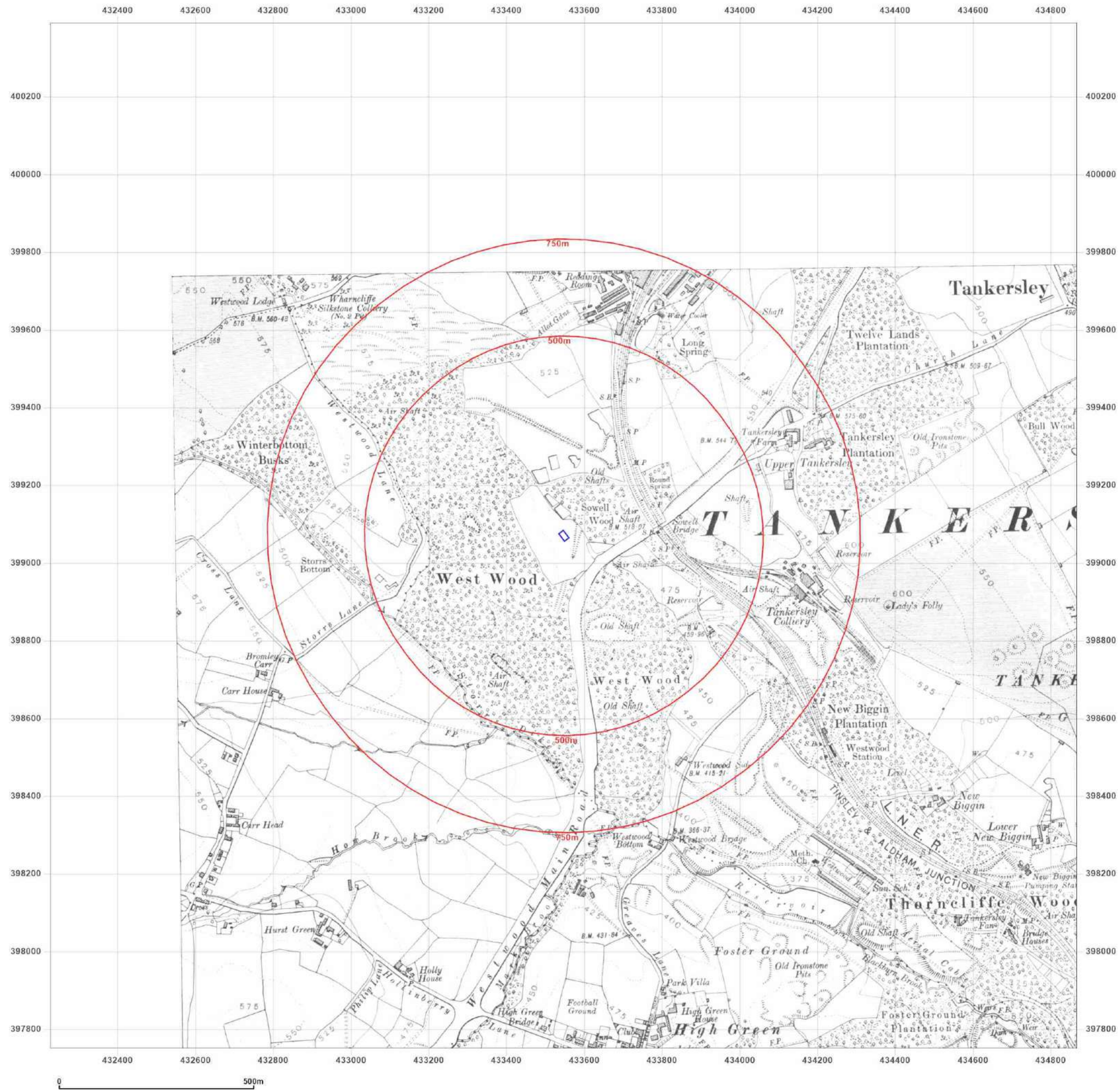
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

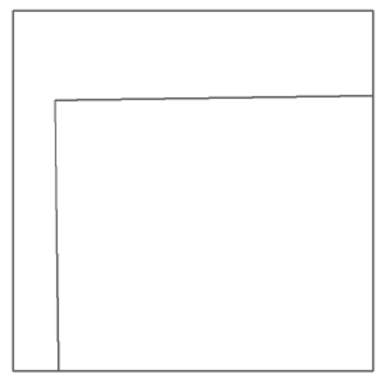
Map Name: County Series

Map date: **1929**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



Surveyed 1851
Revised 1929
Edition 1929
Copyright N/A
Levelled 1915

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

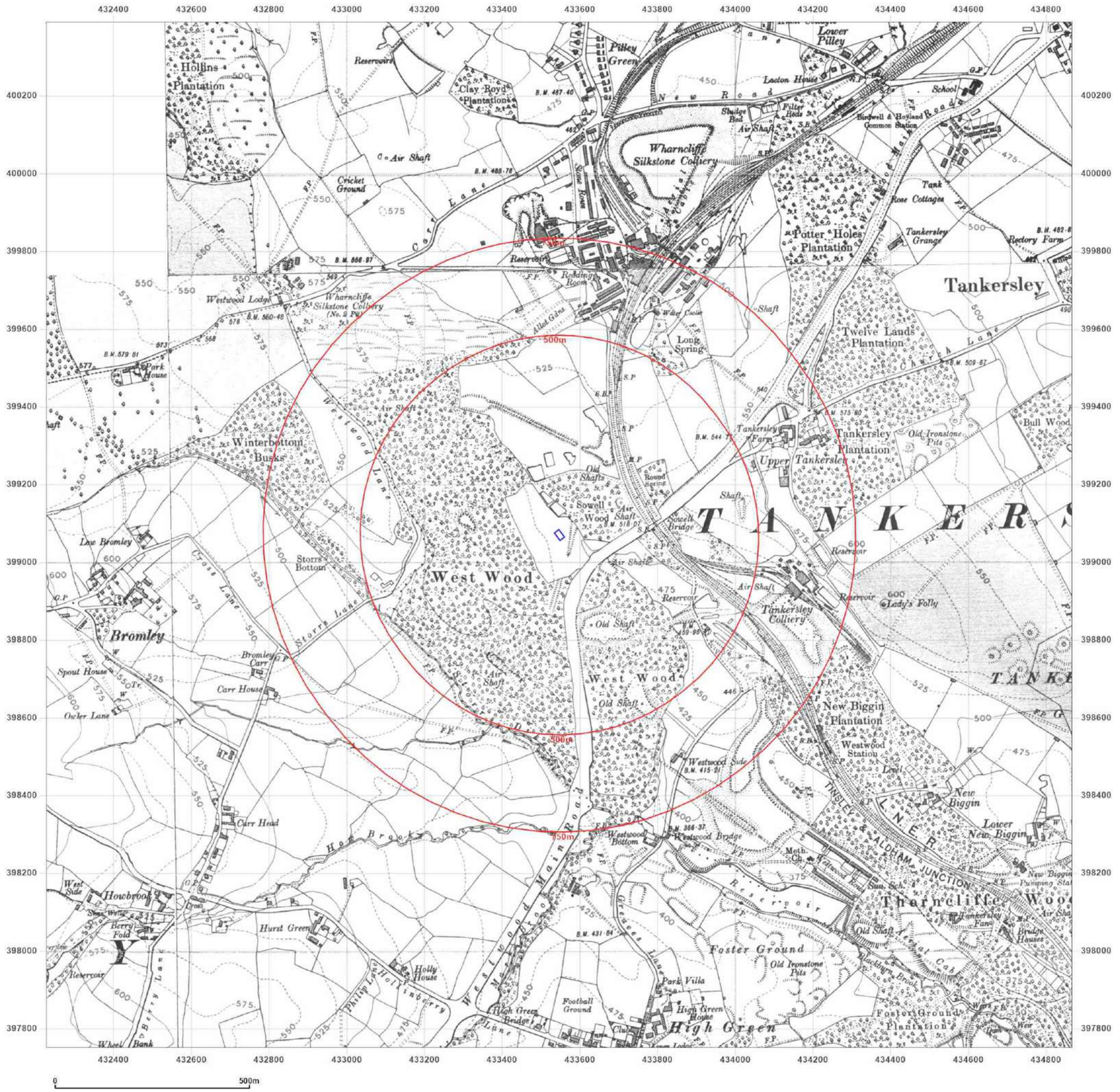
Powered by OS

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: County Series

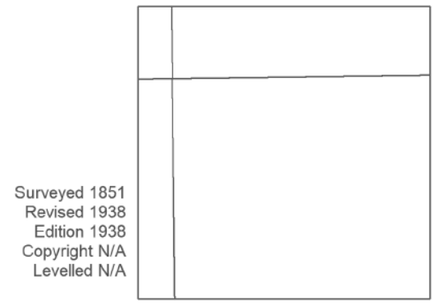
Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1851
Revised 1938
Edition 1938
Copyright N/A
Levelled 1929



Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

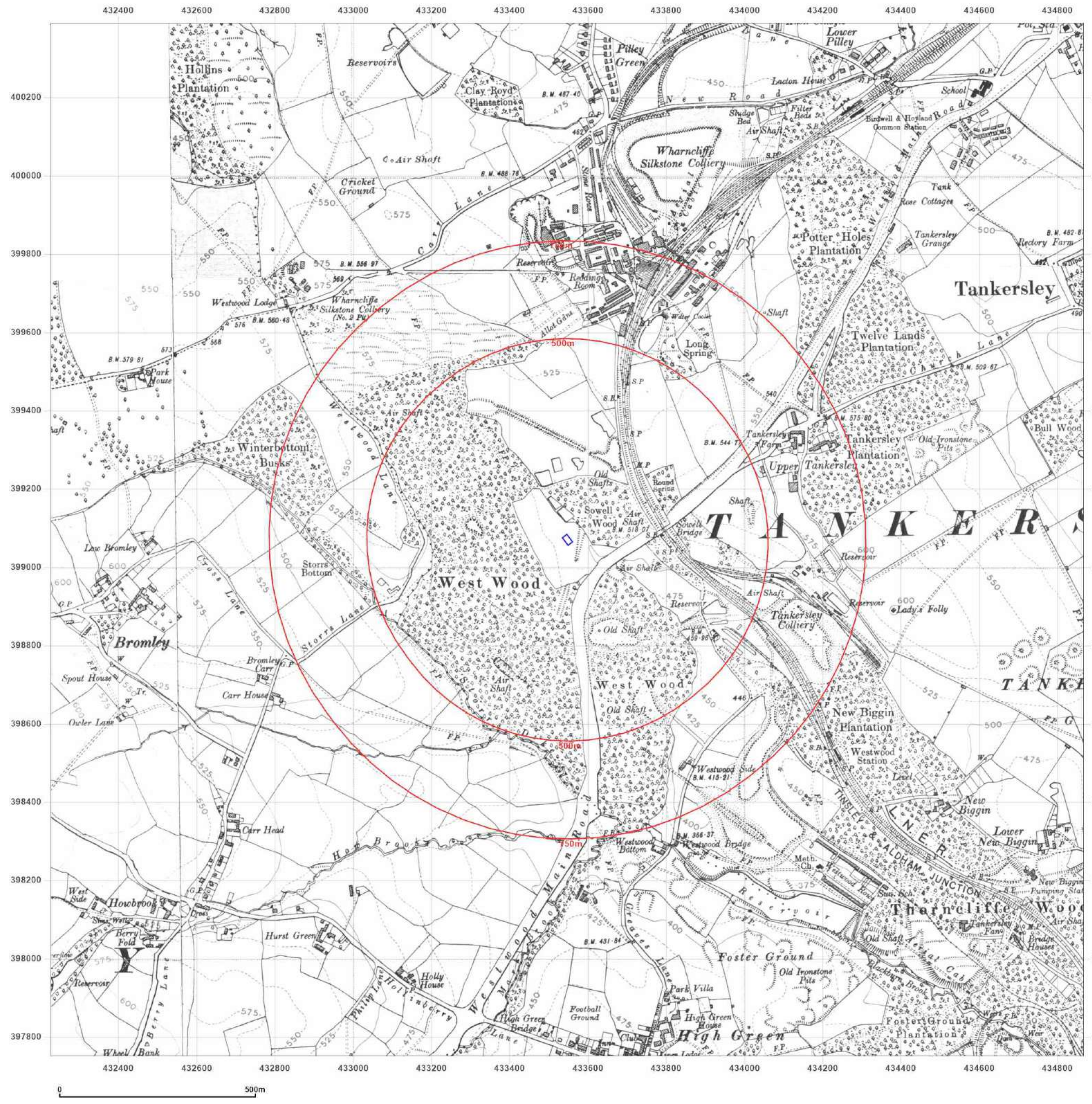
Powered by OS

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

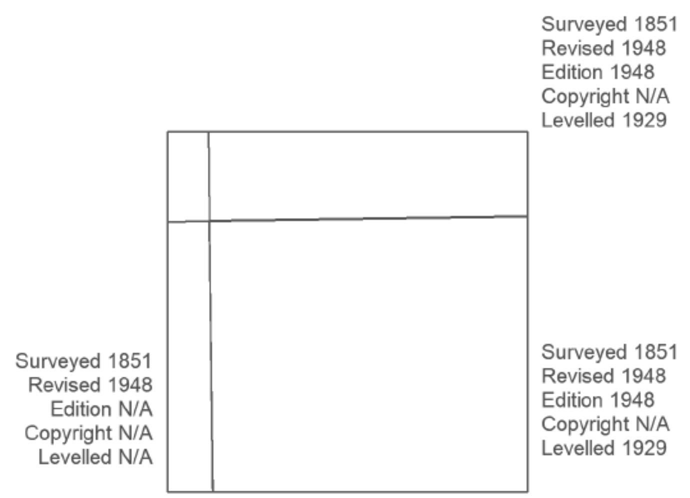
Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

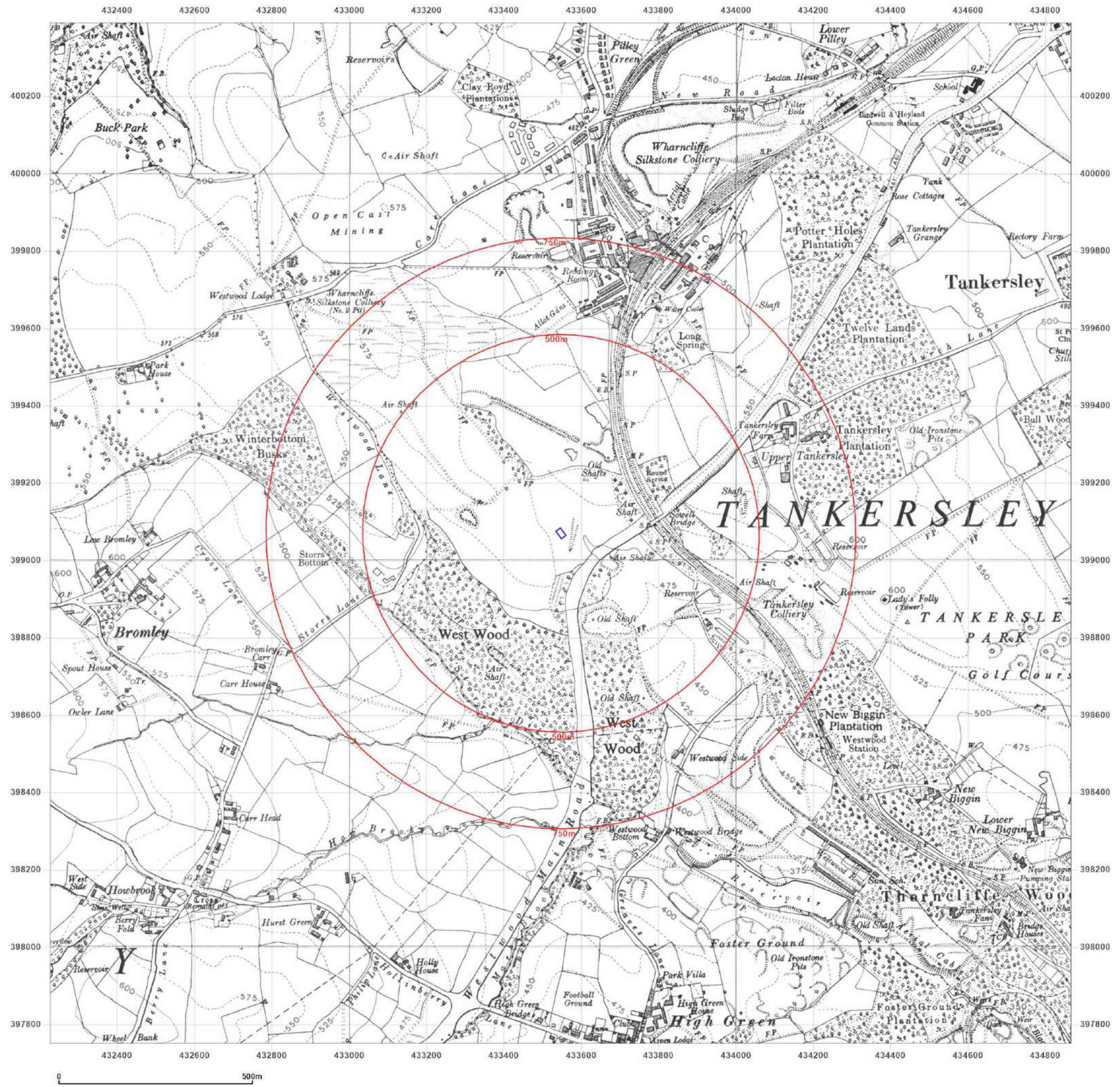
Powered by OS

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: Provisional

Map date: **1951-1956**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed N/A
Revised 1955
Edition N/A
Copyright 1956
Levelled N/A

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

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

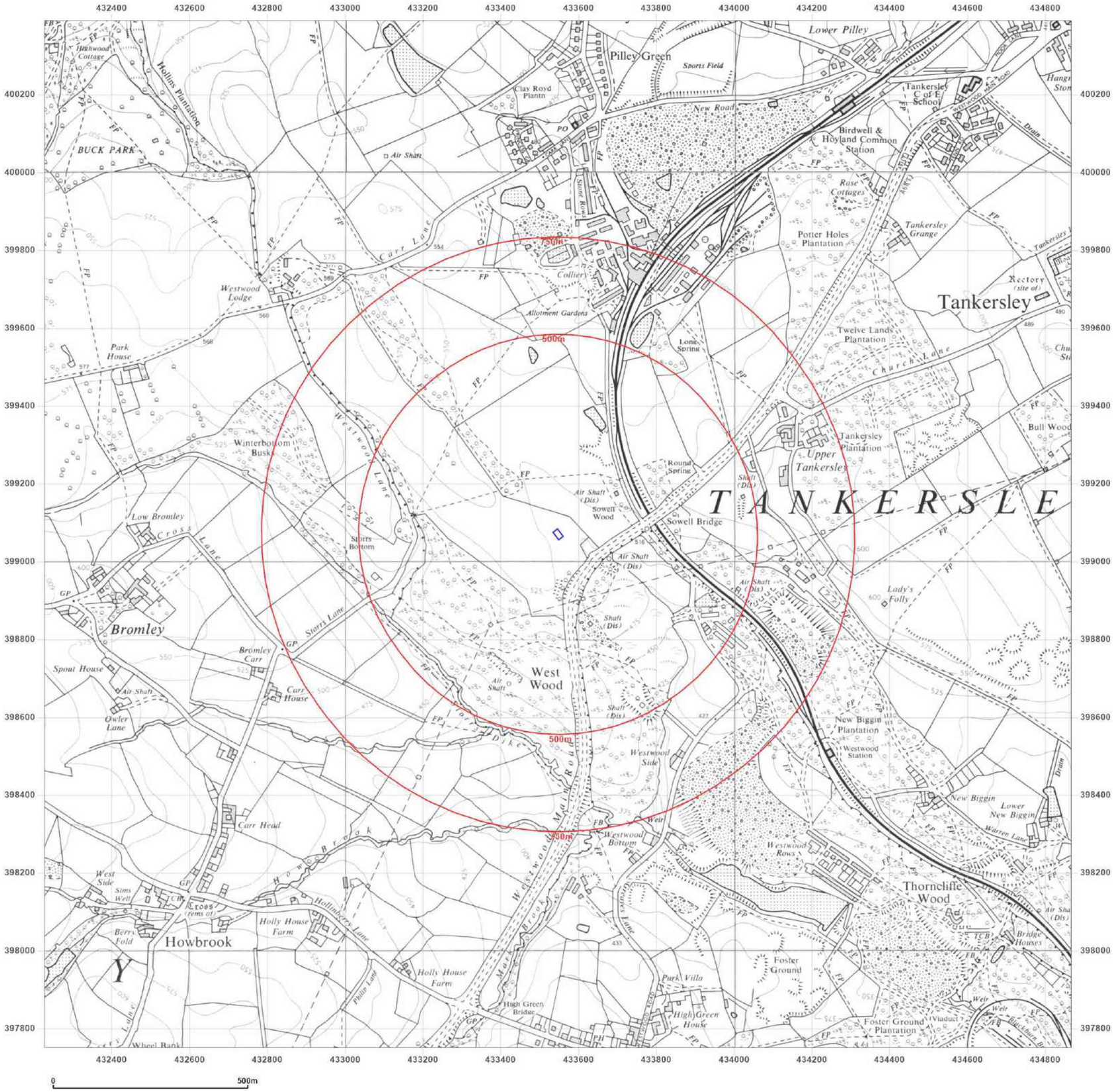
Powered by OS

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: Provisional

Map date: **1965-1966**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

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

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

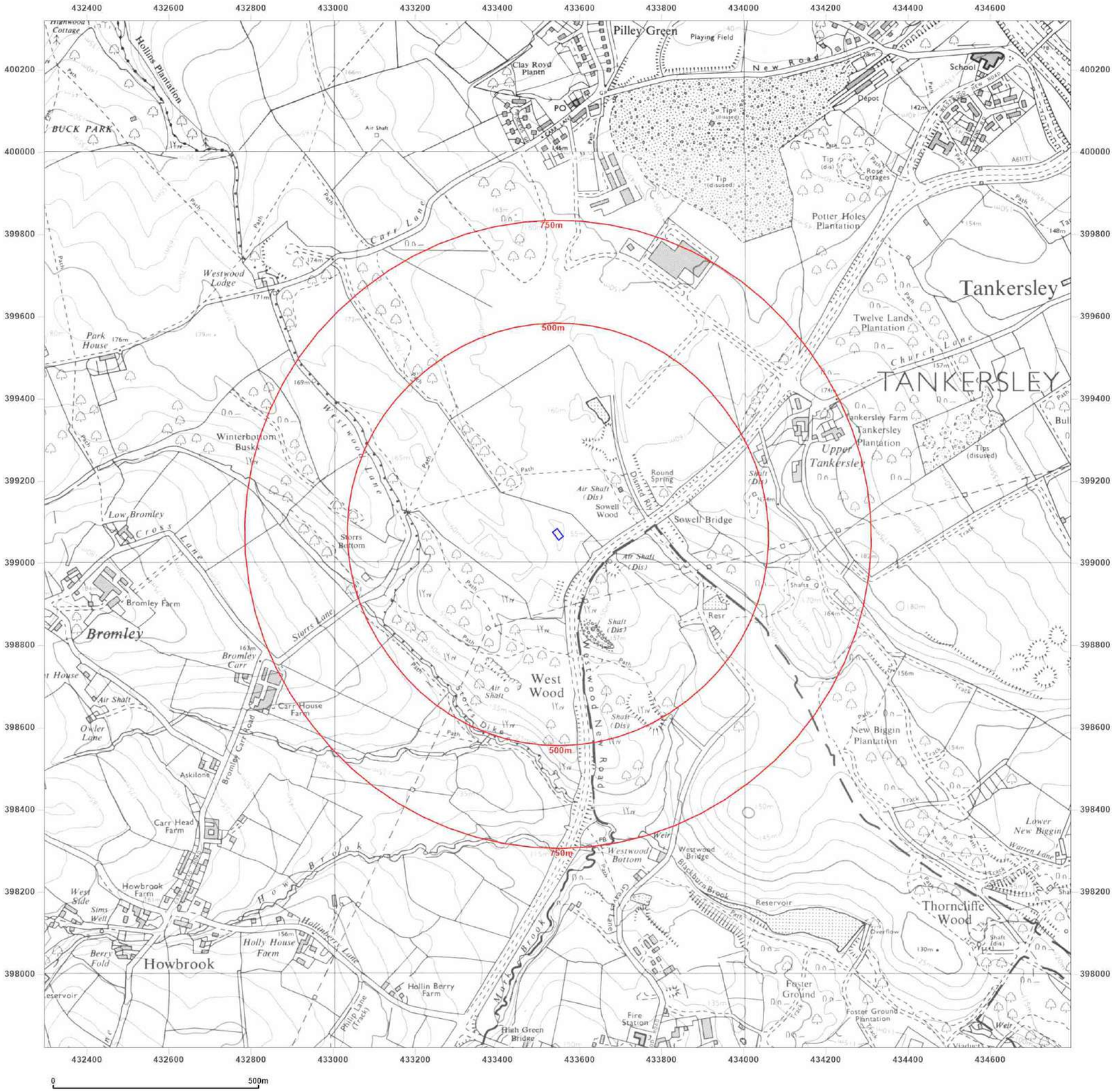
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **1977-1980**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1973
Revised 1977
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1980
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

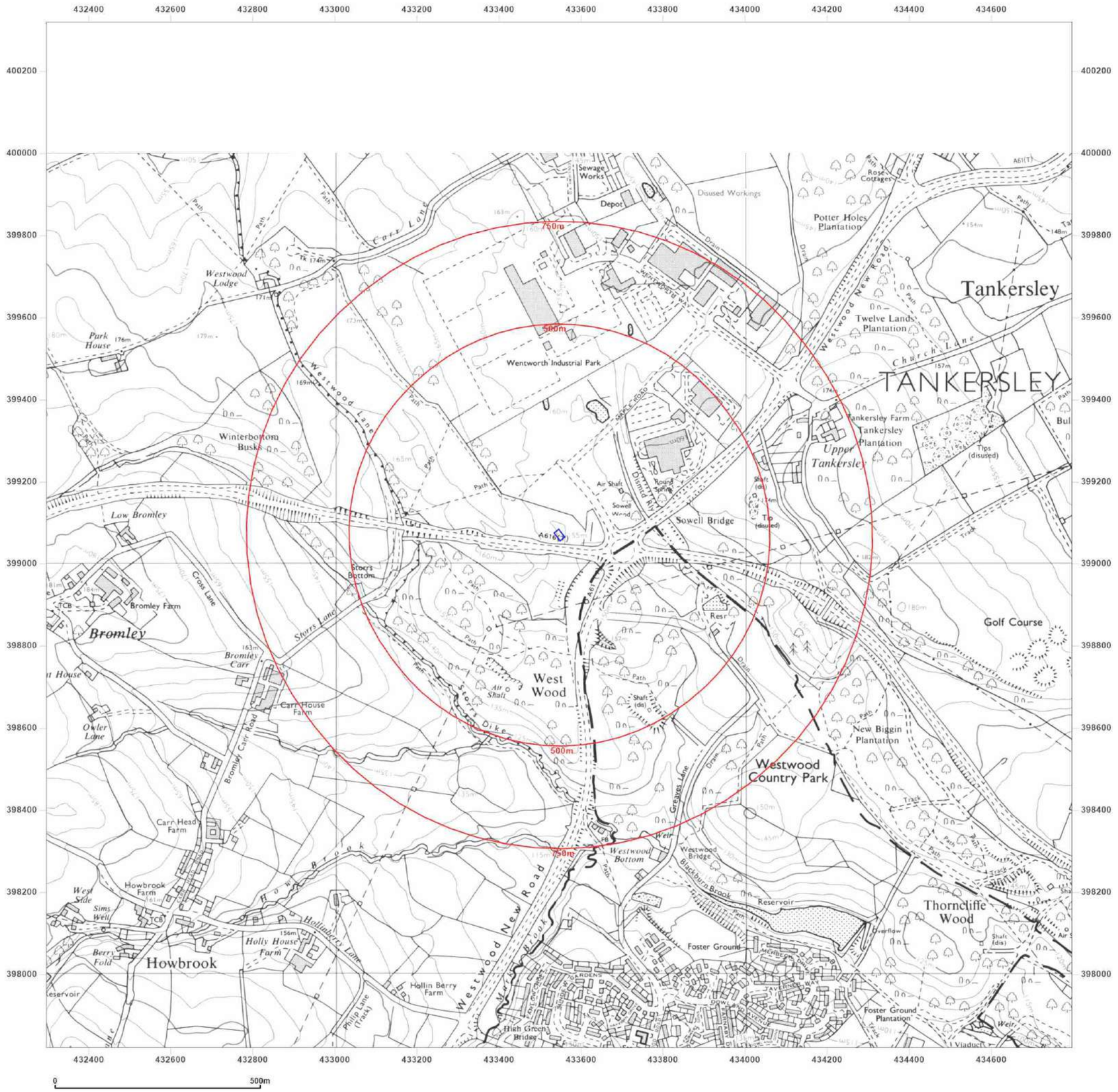
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **1992**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1991
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

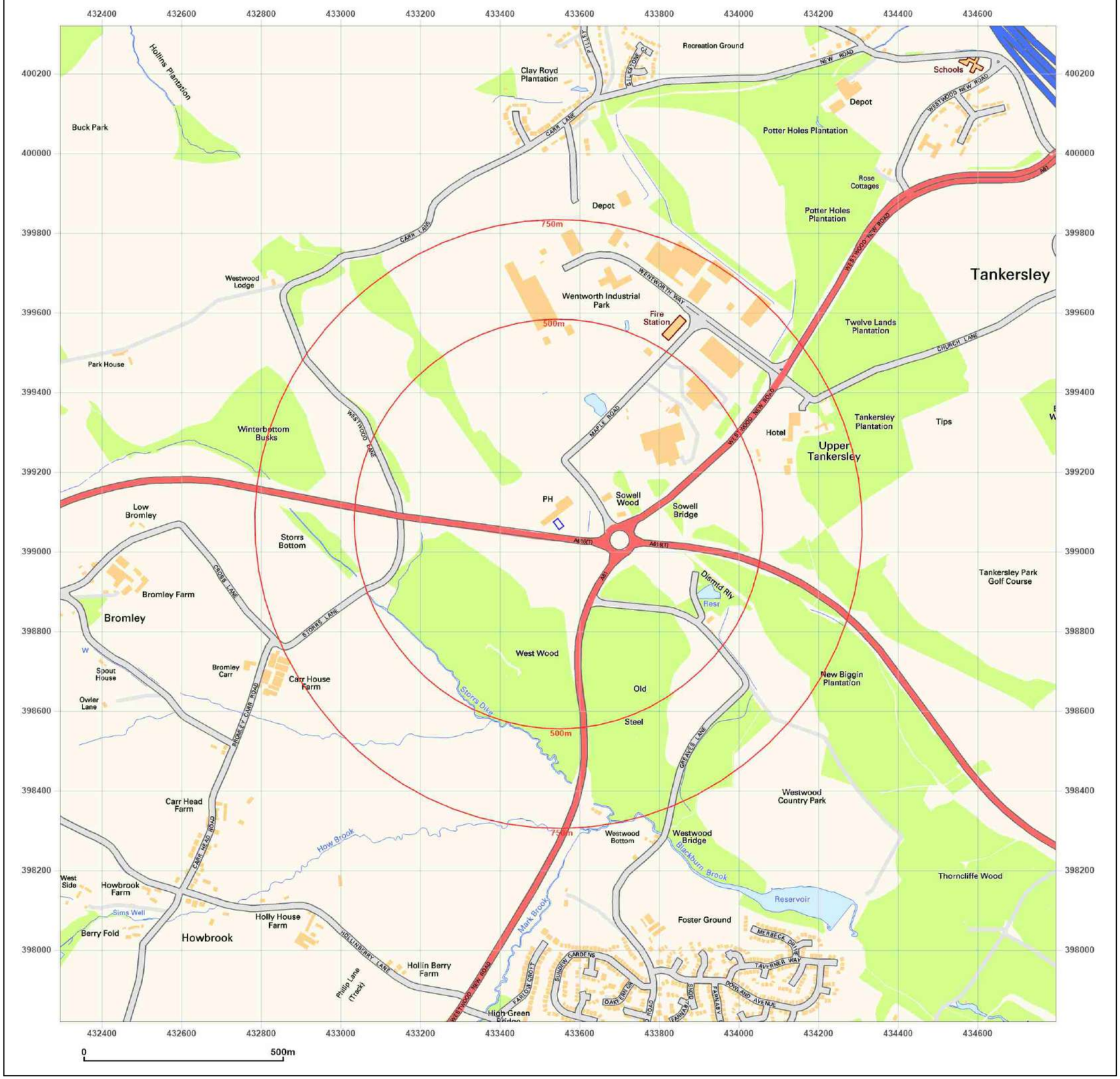
Powered by OS

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2001

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

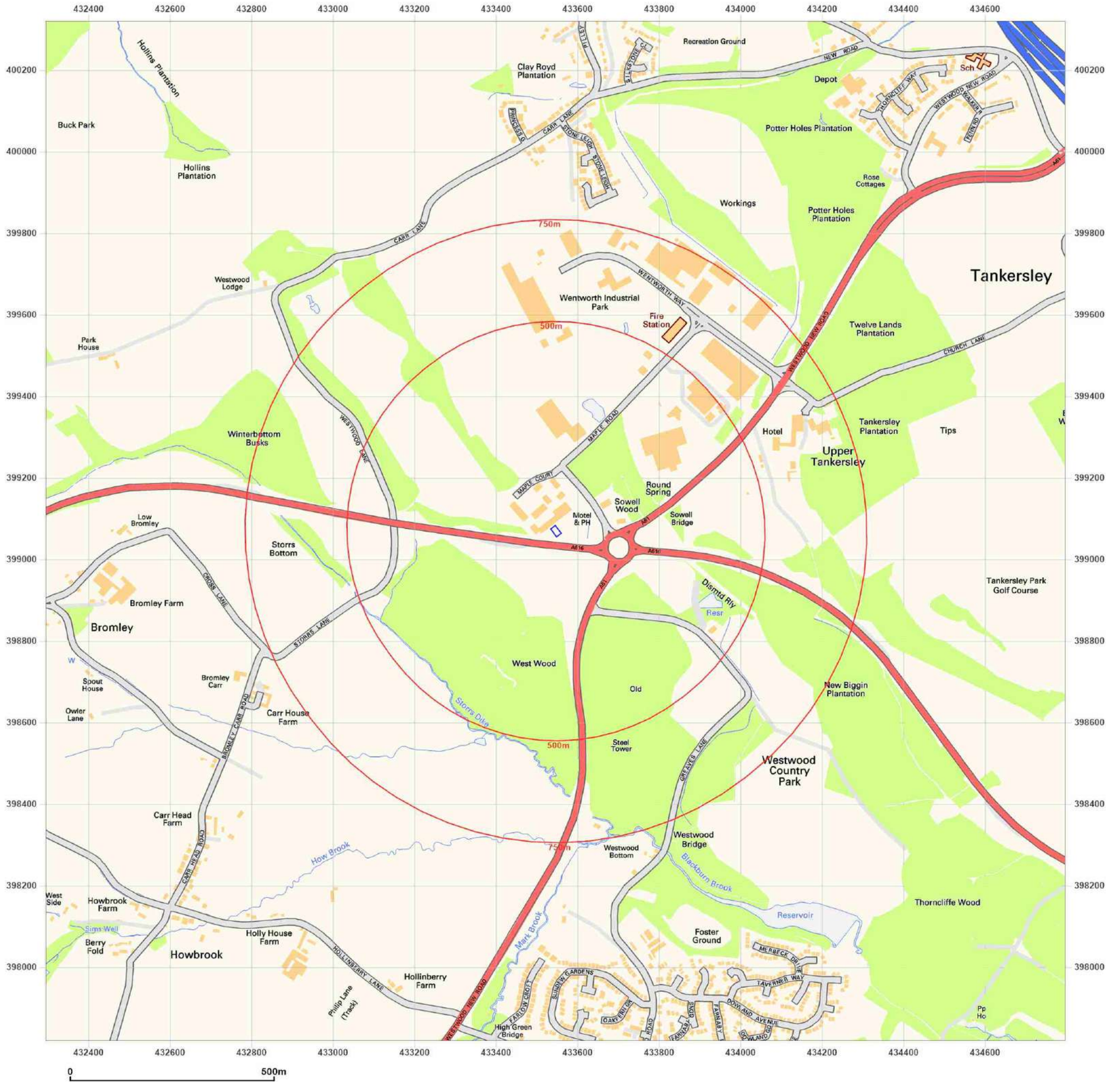
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2010

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

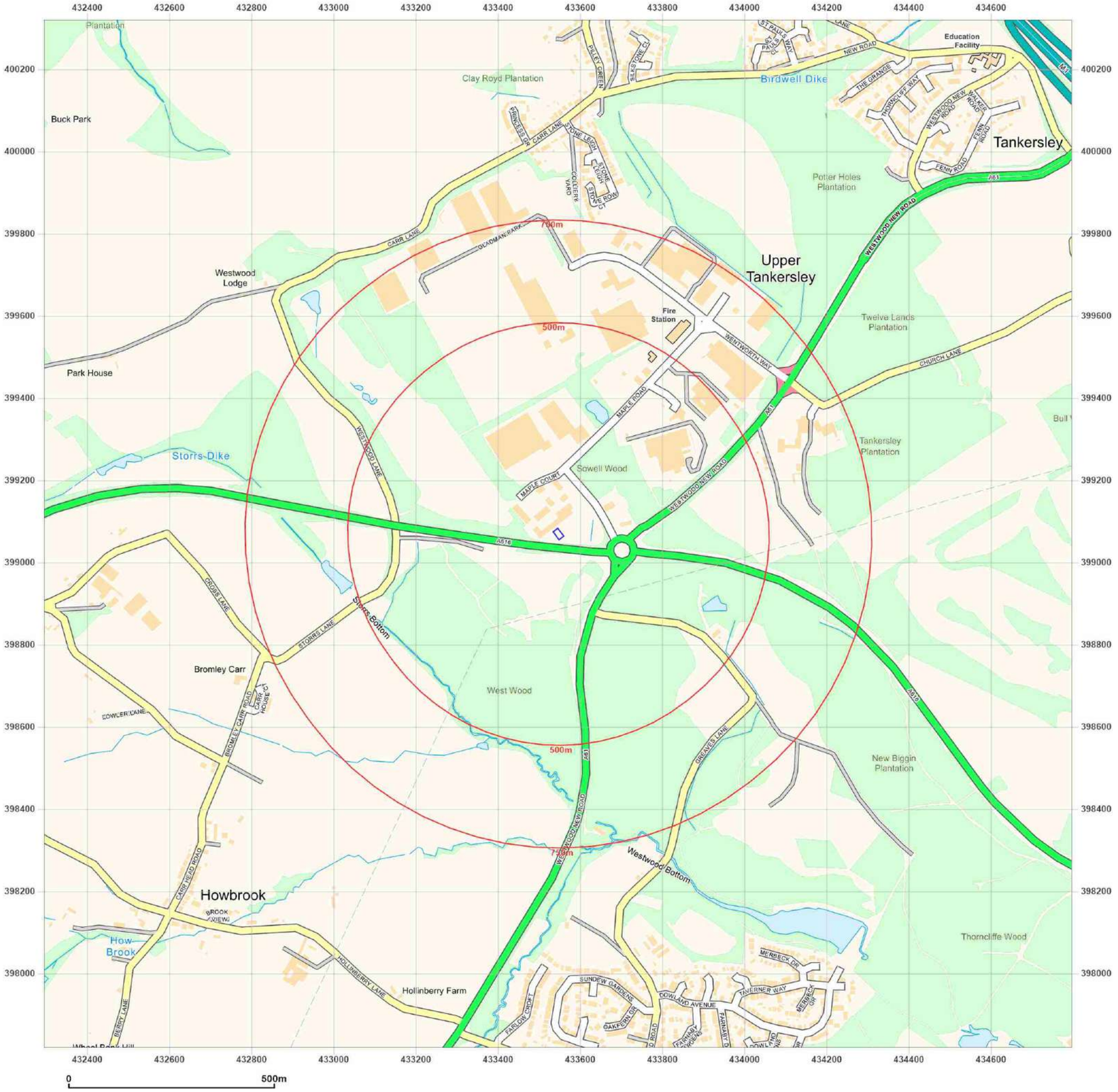
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **2024**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2024

Produced by
Groundsure Insights
www.groundsure.com

Supplied by:
www.emapsite.com
sales@emapsite.com

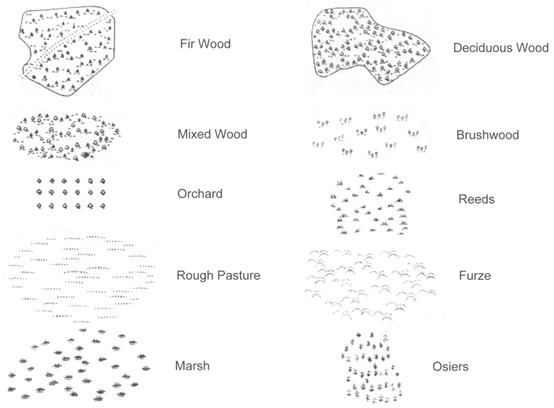
© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

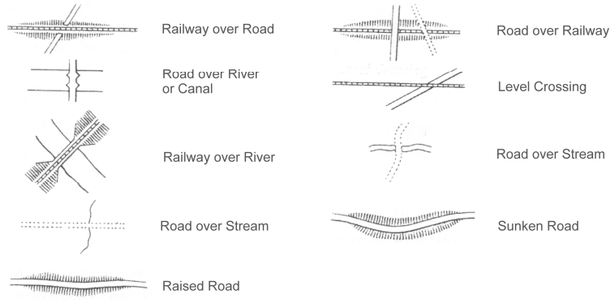
Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf

County Series 1:10,560 scale

VEGETATION



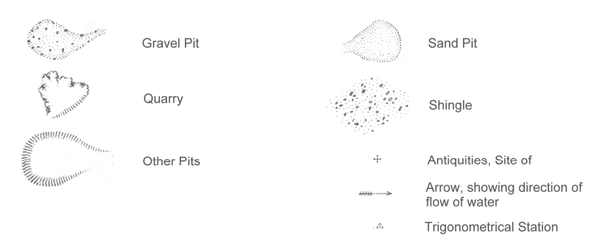
ROADS



RAILWAYS



GENERAL FEATURES



BOUNDARIES



National Grid 1:10,000 scale

HEIGHTS (METRES)

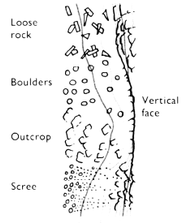
Values are given in metres above mean sea level at Newlyn.

Surface heights determined by: ground survey • 163m; air survey

Bench marks and their values are shown on large scale maps, and bench mark lists containing fuller and possibly later levelling information are obtainable from the Director General, Ordnance Survey.

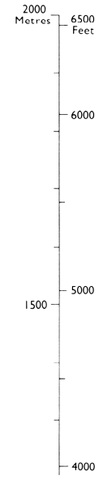
Contours are at 5 metres vertical interval.

ROCK FEATURES



CONVERSION SCALE

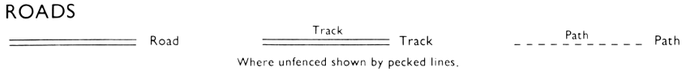
Metres - Feet



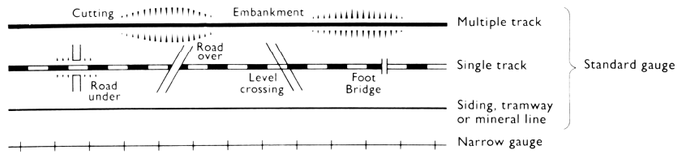
ABBREVIATIONS

BP,BS	Boundary Post or Stone	PO	Post Office
Ch	Church	PC	Public Convenience
CH	Club House	PH	Public House
F Sta	Fire Station	S	Stone
FB	Foot Bridge	Spr	Spring
Fn	Fountain	TCB	Telephone Call Box
GP	Guide Post	TCP	Telephone Call Post
MP,MS	Mile Post or Stone	TH	Town Hall
P	Pole or Post	W	Well
Pol Sta	Police Station	Y	Youth hostel

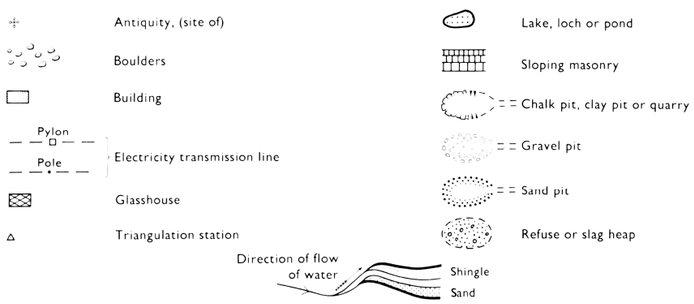
ROADS



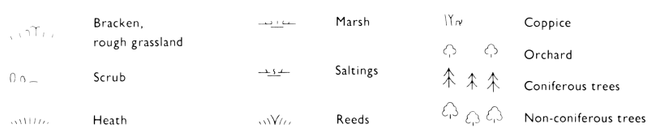
RAILWAYS



GENERAL FEATURES



VEGETATION



In some areas bracken ( ) and rough grassland ( ) are shown separately.

GroundSure

Historical Map Pack Legend

County Series & National Grid

1:10,560 scale

Information present on these legends is sourced from the same Ordnance Survey mapping as the maps used in this product.

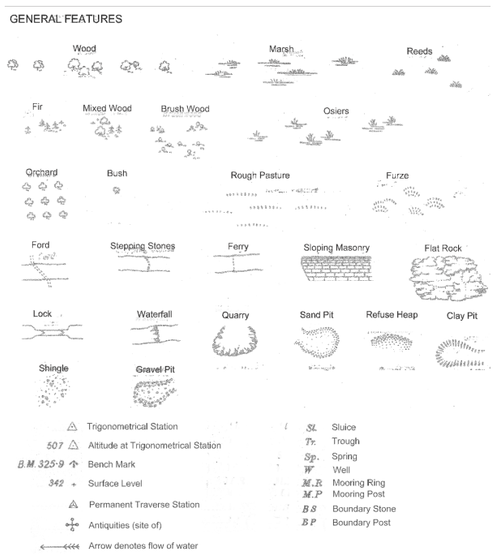
If you have a query regarding any of the maps provided please contact GroundSure's technical helpline. We will endeavour to answer any queries you may have.

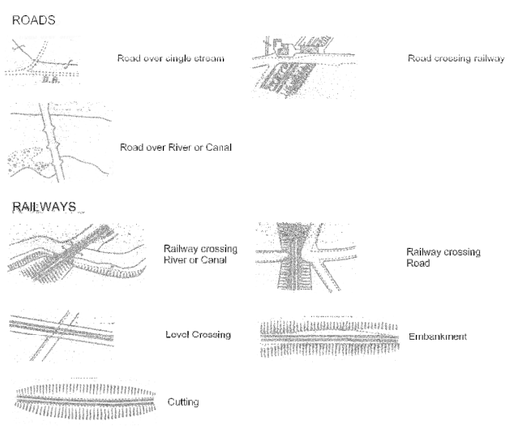
Technical Helpline

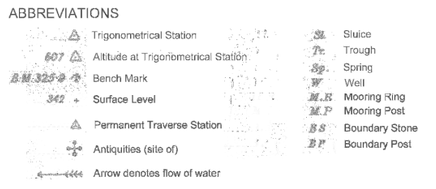
Tel 08444159000

groundsureinsight@groundsure.com
www.groundsure.com

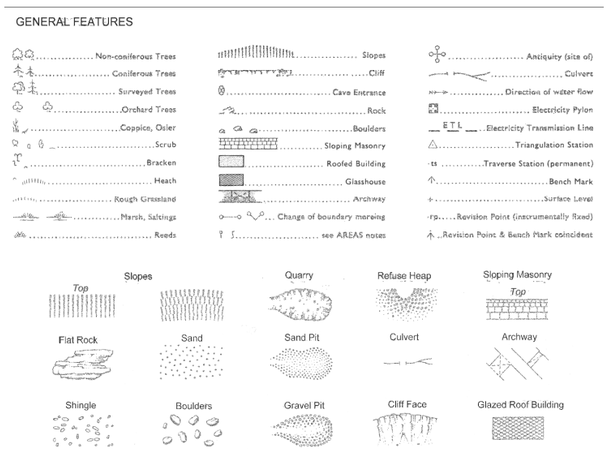
County Series 1:2,500 scale

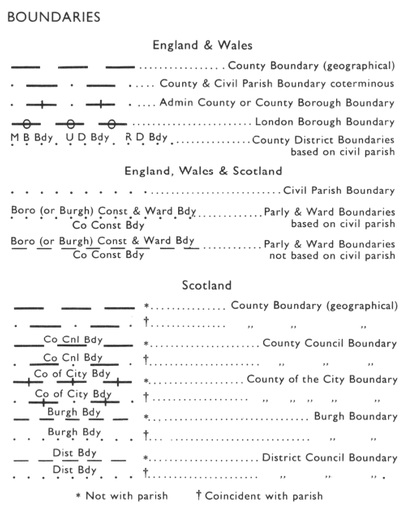


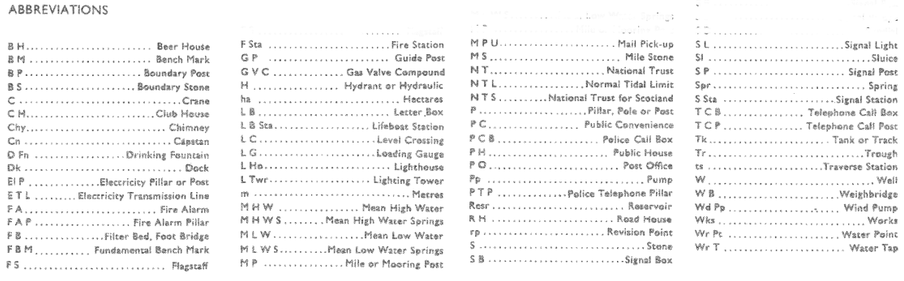




National Grid 1:2,500 / 1:1,250 scale







GroundSure

Historical Map Pack Legend

County Series

1:1,250 scale

~

County Series & National Grid

1:2,500 scale

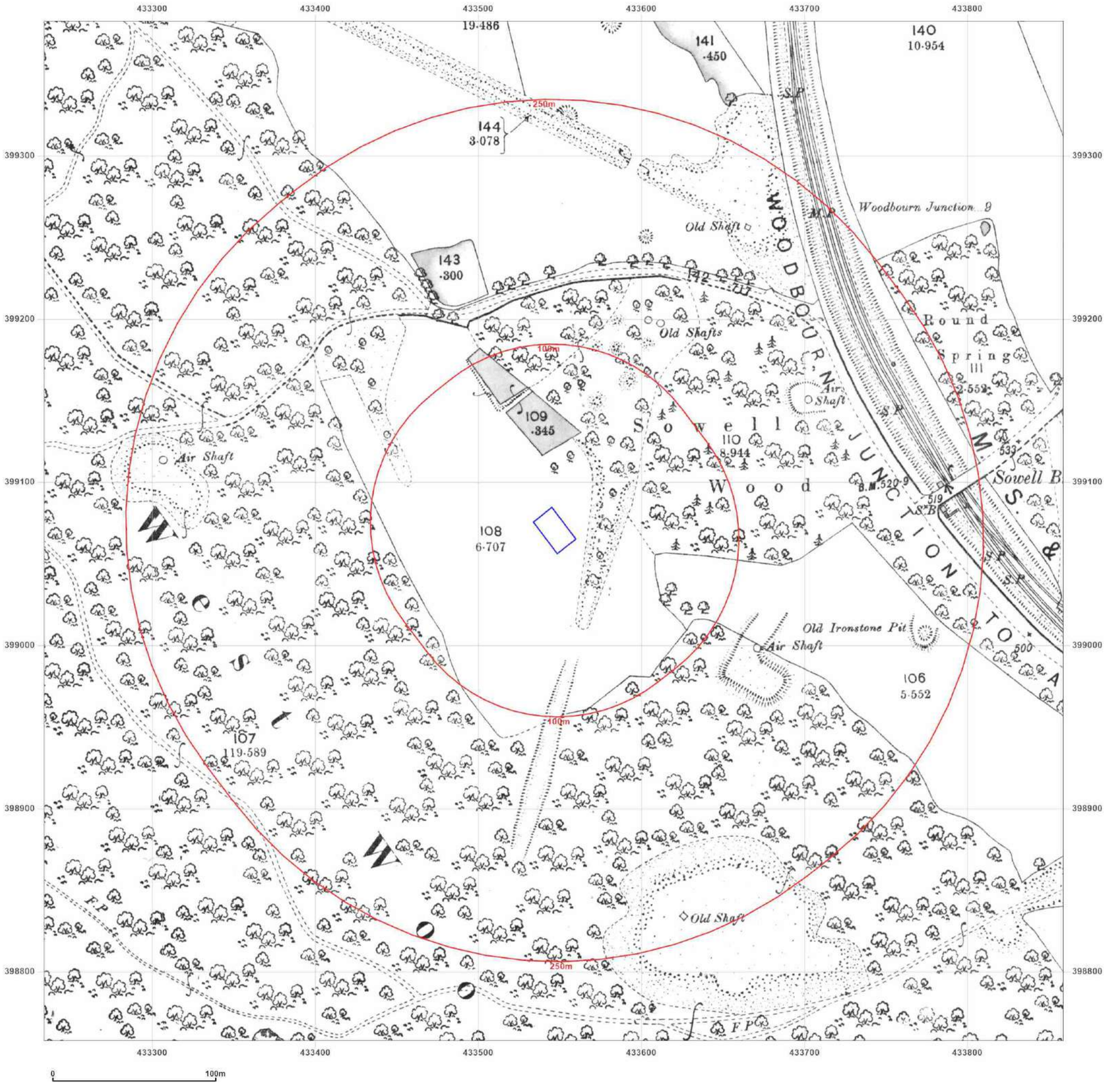
Information present on these legends is sourced from the same Ordnance Survey mapping as the maps used in this product.

If you have a query regarding any of the maps provided within this map pack, please contact GroundSure's technical helpline. We will endeavour to answer any queries you may have.

Technical Helpline:

Tel 08444159000

groundsureinsight@groundsure.com
www.groundsure.com



Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

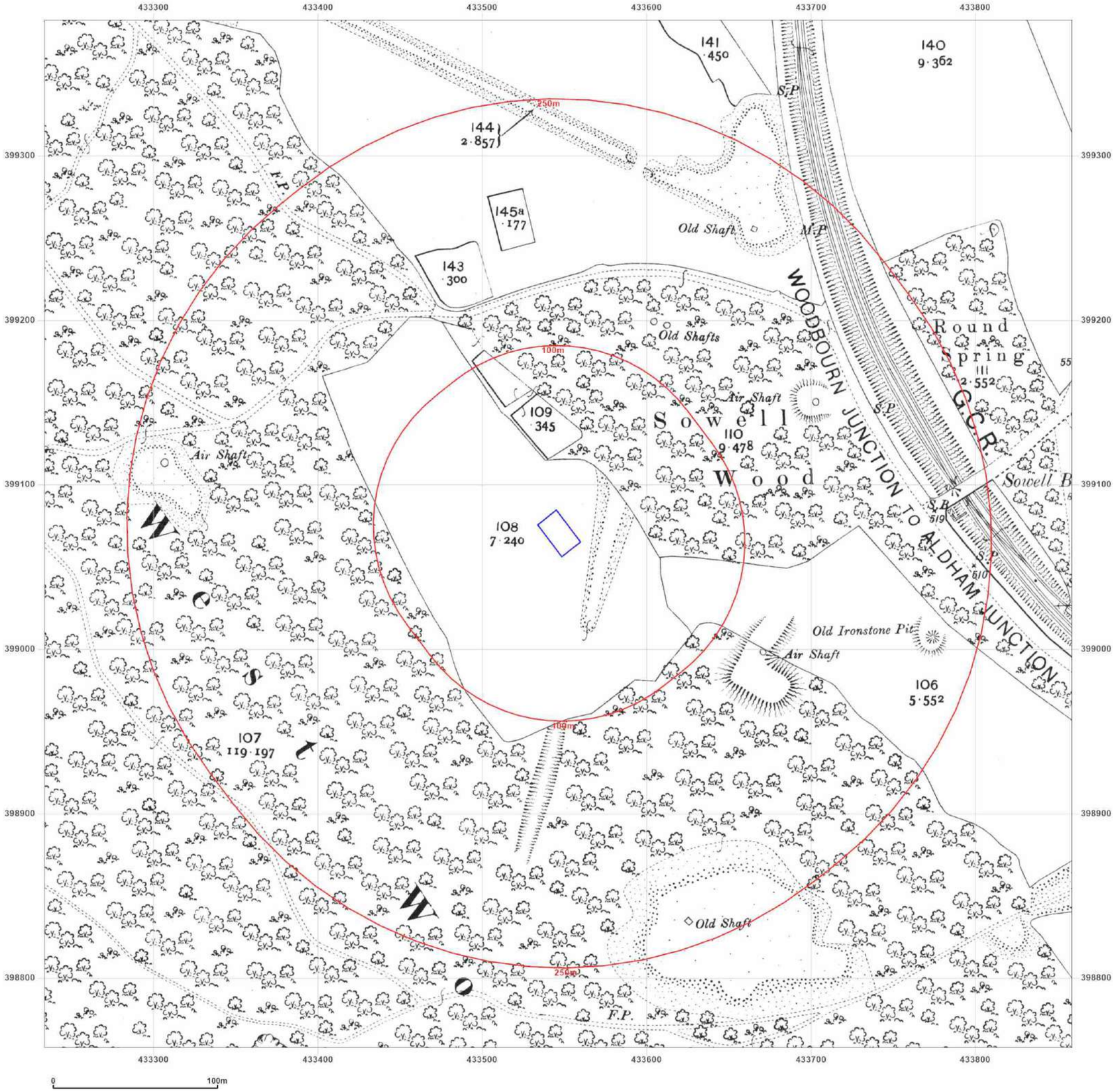
Produced by
Groundsure Insights
www.groundsure.com

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: County Series

Map date: **1905**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

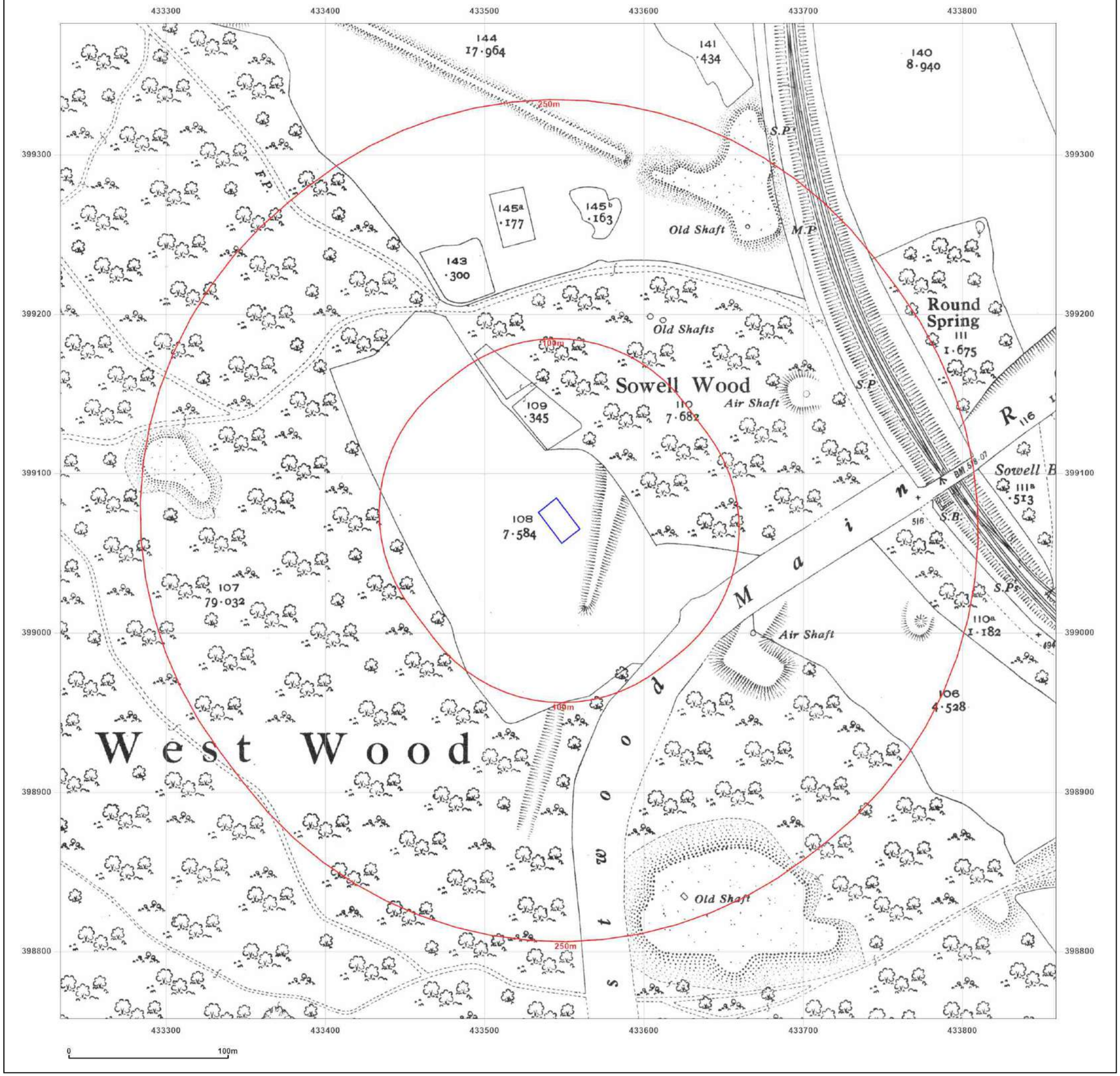
Powered by OS

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: County Series

Map date: **1931**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

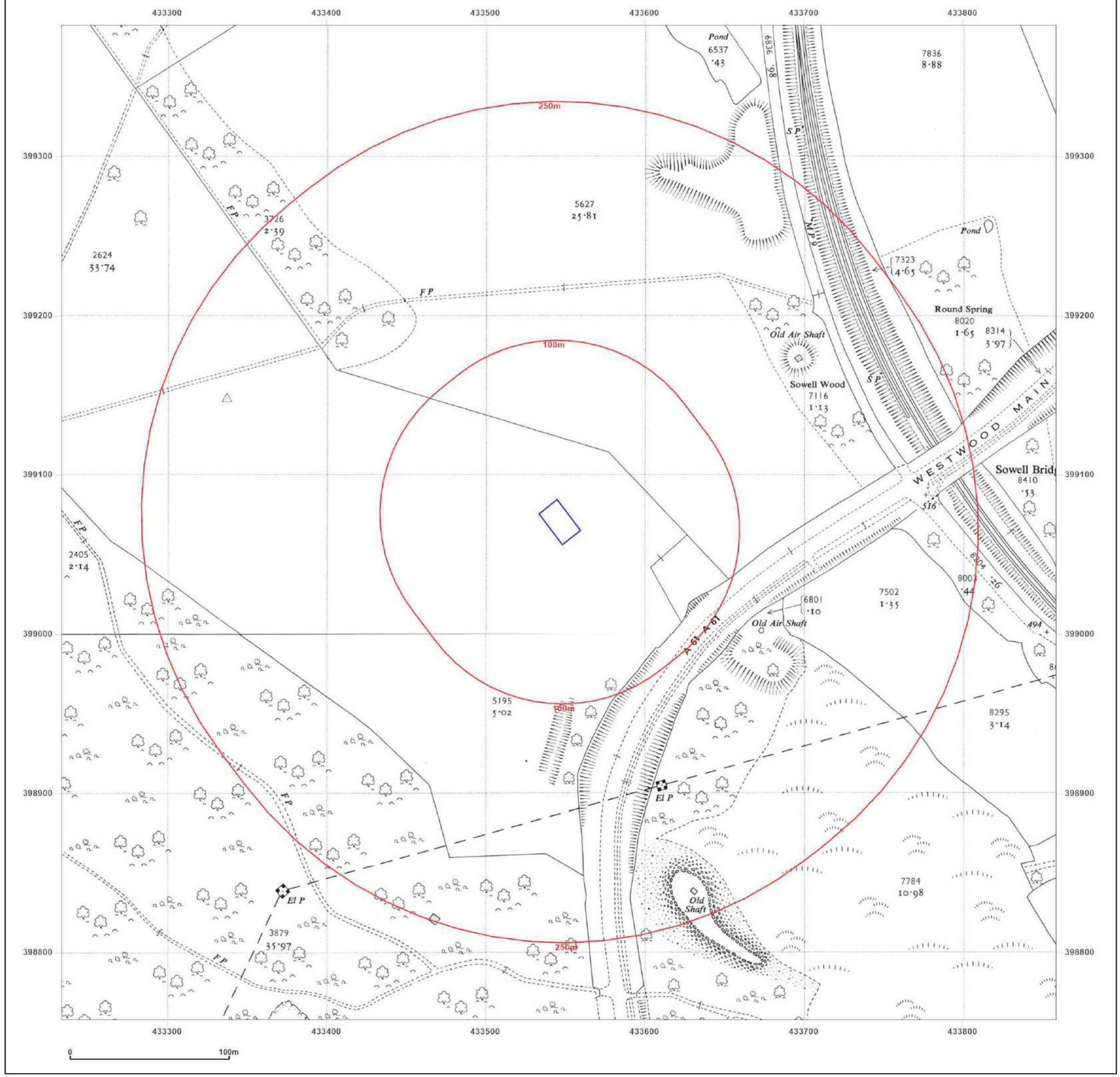
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **1956**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1930

Surveyed 1956
Revised 1956
Edition N/A
Copyright N/A
Levelled 1930

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

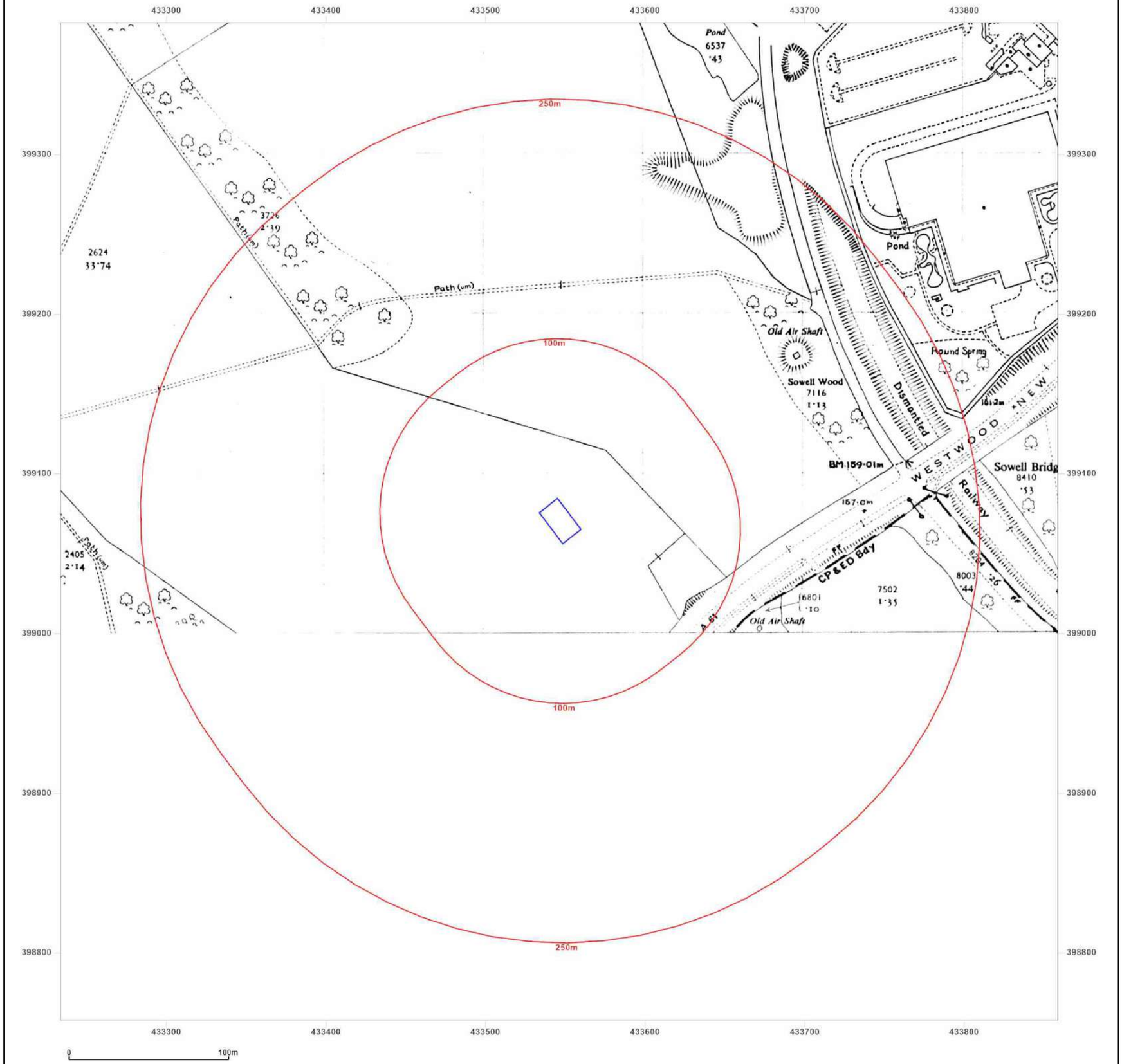
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **1981**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1981
Levelled 1963

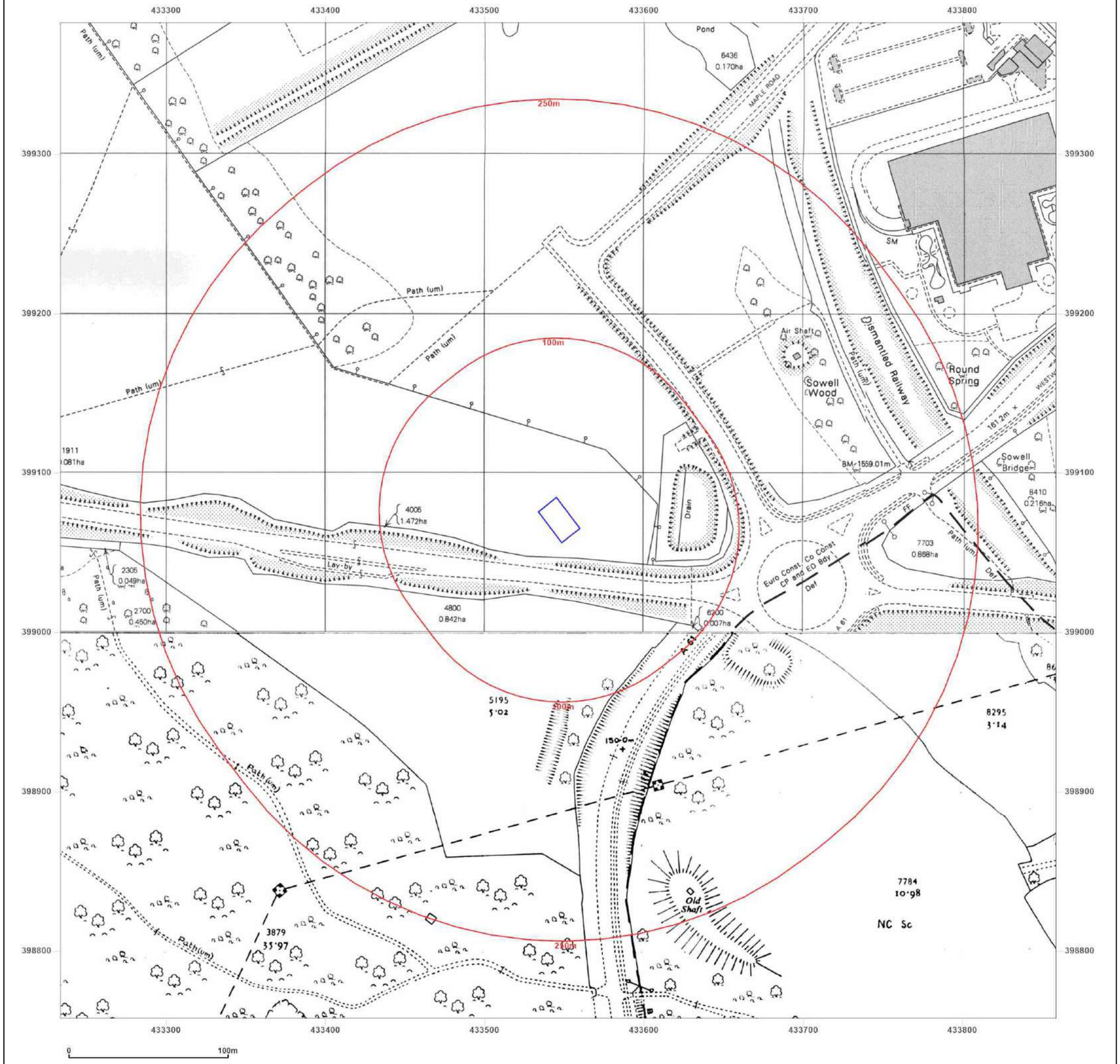
Produced by
Groundsure Insights
www.groundsure.com

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **1984-1989**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised 1989
Edition N/A
Copyright 1991
Levelled N/A

Surveyed 1963
Revised 1984
Edition N/A
Copyright 1984
Levelled 1963

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

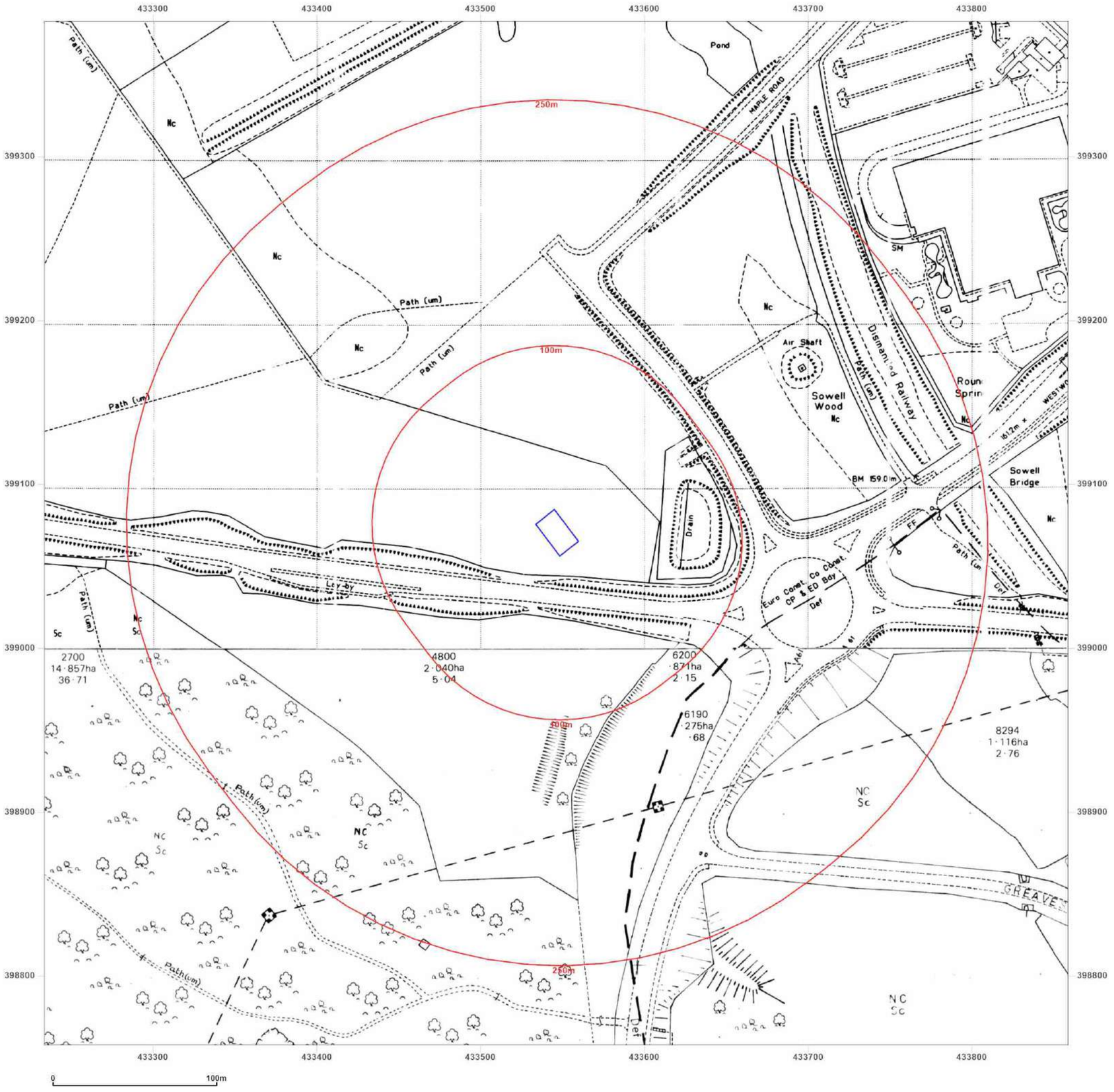
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **1990-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Surveyed 1963
Revised 1990
Edition N/A
Copyright 1990
Levelled 1963

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

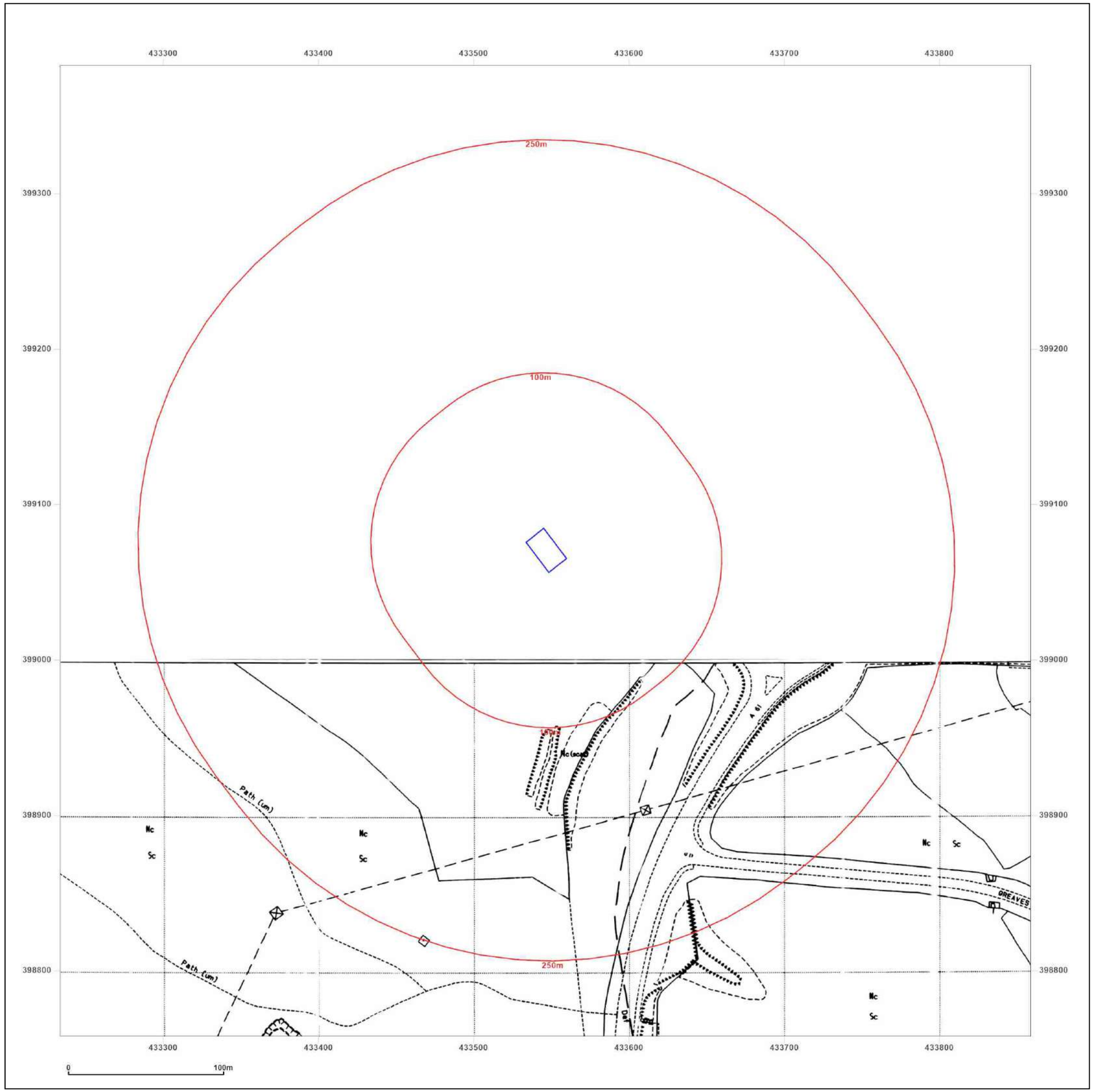
Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

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

Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

Powered by OS

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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



EMAPSITE™

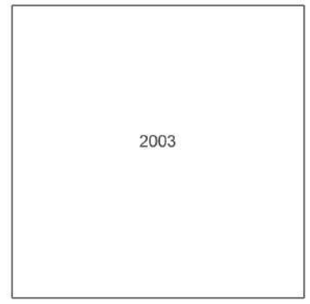
Site Details:

Premier Inn, Maple Road,
Barnsley, S75 3DL

Client Ref: EMS_952452_1182574
Report Ref: EMS-952452_1210473
Grid Ref: 433546, 399070

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

N
W E
S



Groundsure INSIGHTS

Produced by
Groundsure Insights
www.groundsure.com

Powered by

Supplied by:
www.emapsite.com
sales@emapsite.com

© Crown copyright and database rights 2024 Ordnance Survey 100035207

Production date: 19 June 2024

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

Appendix 2 – Mining Reports

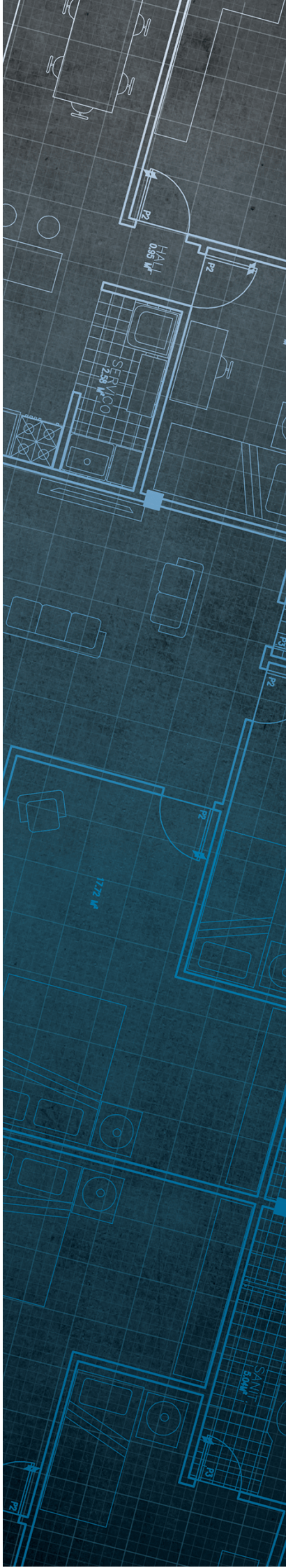
The Coal Authority

Consultants

Coal Mining Report

Premier Inn
Maple Road
Tankersley
Barnsley
Barnsley
S75 3DL

Date of enquiry:	**19 June 2024**
Date enquiry received:	**19 June 2024**
Issue date:	**19 June 2024**
Our reference:	**51003432037001**
Your reference:	**CRM.183.056 RH Geo**



Consultants
Coal Mining Report

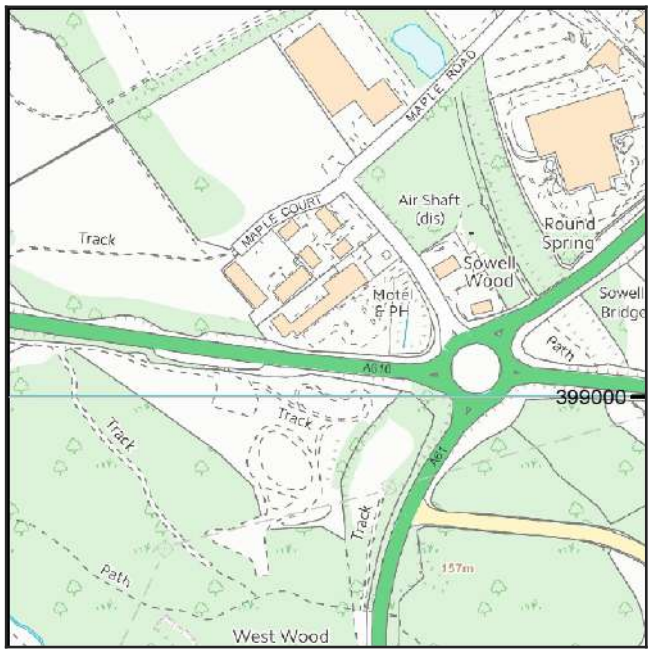
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

ENZYGO LTD

Enquiry address

Premier Inn
Maple Road
Tankersley
Barnsley
Barnsley
S75 3DL



Approximate position of property

Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2018. All rights reserved.

Ordnance Survey Licence number: 100020315

How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

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

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
TANKERSLEY	THORNCLIFFE	Coal	65R1	40	Beneath Property	5.5	North-East	68	1887
TANKERSLEY	SILKSTONE	Coal	6IYD	110	South	6.8	North-East	170	1856
unnamed	SILKSTONE	Coal	65RL	114	Beneath Property	5.2	East	170	1875
TANKERSLEY	WHINMOOR	Coal	6IYC	158	South	5.7	North-East	81	1922
TANKERSLEY	WHINMOOR	Coal	65RB	161	Beneath Property	5.3	North-East	74	1920

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	433399-031	433601 399057	Has been filled to an unknown specification and has probably been removed to some extent by opencast mining.	Coal	
Shaft	433399-032	433581 399094	Has been filled to an unknown specification and has probably been removed to some extent by opencast mining.	Coal	
Shaft	433399-033	433543 399137	has been filled to an unknown specification and has probably been removed to some extent by opencast mining	Coal	
Shaft	433399-034	433505 399174	has been filled to an unknown specification and has probably been removed to some extent by opencast mining	Coal	
Shaft	433399-048	433480 399129	Has been excavated by opencast mining	Coal	
Shaft	433399-049	433522 399142	has been excavated by opencast mining	Coal	
Shaft	433399-050	433575 399124	has been excavated by opencast mining	Coal	
Shaft	433399-051	433548 399114	has been excavated by opencast mining	Coal	
Shaft	433399-052	433525 399093	has been excavated by opencast mining	Coal	
Shaft	433399-053	433569 399106	Has been excavated by opencast mining.	Coal	
Shaft	433399-054	433554 399069	Has been excavated by opencast mining.	Coal	
Shaft	433399-055	433599 399065	Has been excavated by opencast mining	Coal	

Abandoned mine plan catalogue numbers

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

8643	16782	M17
8641	16772	16774
M675	9356	PO0

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

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

Outcrops
No outcrops recorded.

Geological faults, fissures and breaklines
No faults, fissures or breaklines recorded.

Opencast mines
Please refer to the “Summary of findings” map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips
None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

Distance to site investigation (m)	Direction
10.5	South-West

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

Distance to gas incident/remediation (m)	Direction
175.3	North-East

See Section 4 for further information.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

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

Court orders
None recorded.

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

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

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

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

Copyright © 2024 The Coal Authority

Section 4 – Further information

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

Future development

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

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

Development advice

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

Site investigations

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

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

Mine gas remedial works

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards.

The site requires further investigation and may influence your risk assessment. We recommend that you order the **Coal Authority Mine Gas Emission Report**, which will include more information about the hazard.

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

Copyright © 2024 The Coal Authority

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Copyright © 2024 The Coal Authority

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

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

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

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

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

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

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

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

Copyright © 2024 The Coal Authority

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

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

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

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

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

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

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

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

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

Copyright © 2024 The Coal Authority

The Coal Authority

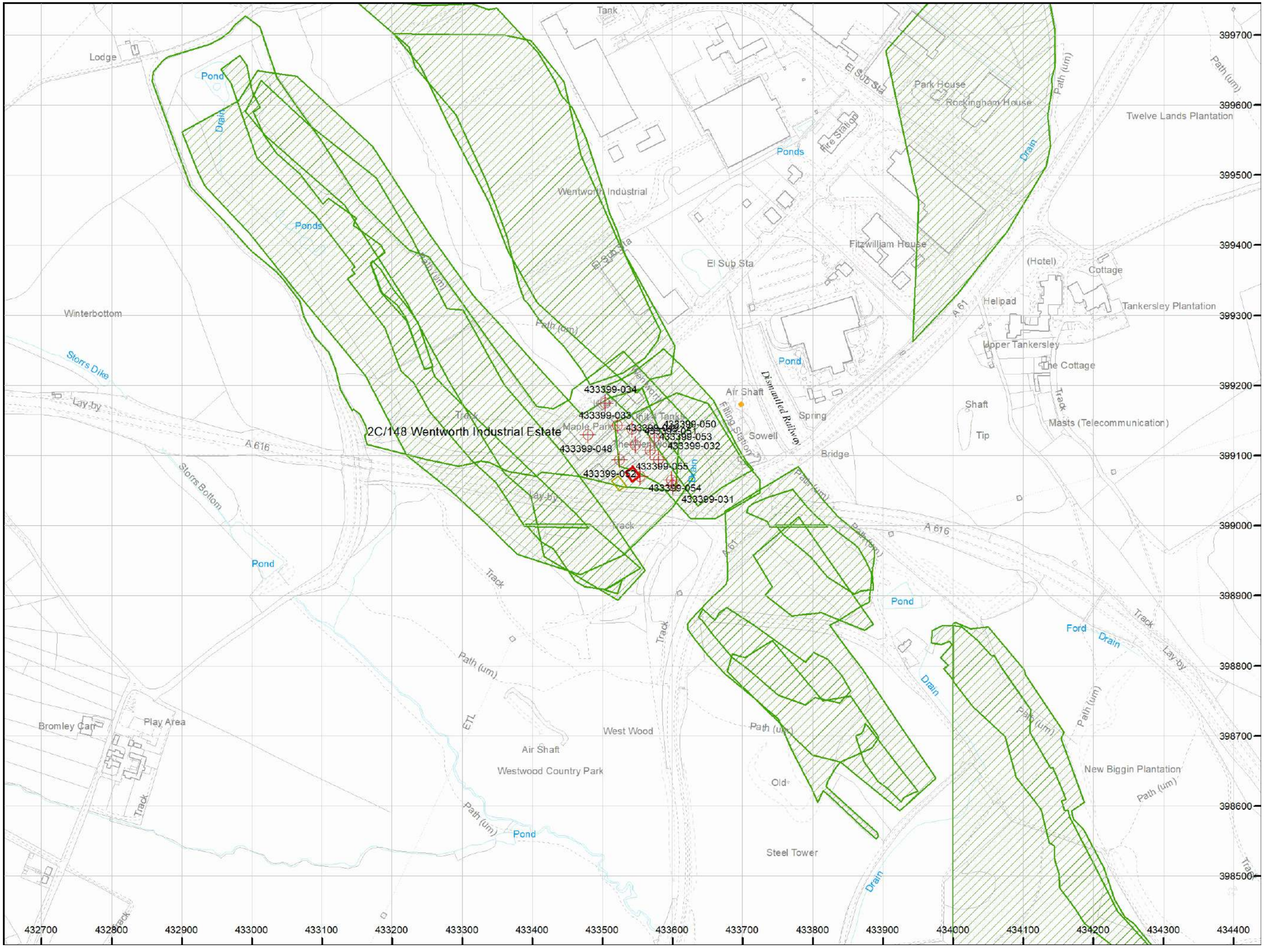
Summary of findings

Reproduced by permission of Ordnance Survey on behalf of HMSO.
© Crown copyright and database right 2018. All rights reserved.
Ordnance Survey Licence number: 100020315

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

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Opencast mine licence area
- Unlicensed opencast site
- Site investigations
- Mine gas remedial works



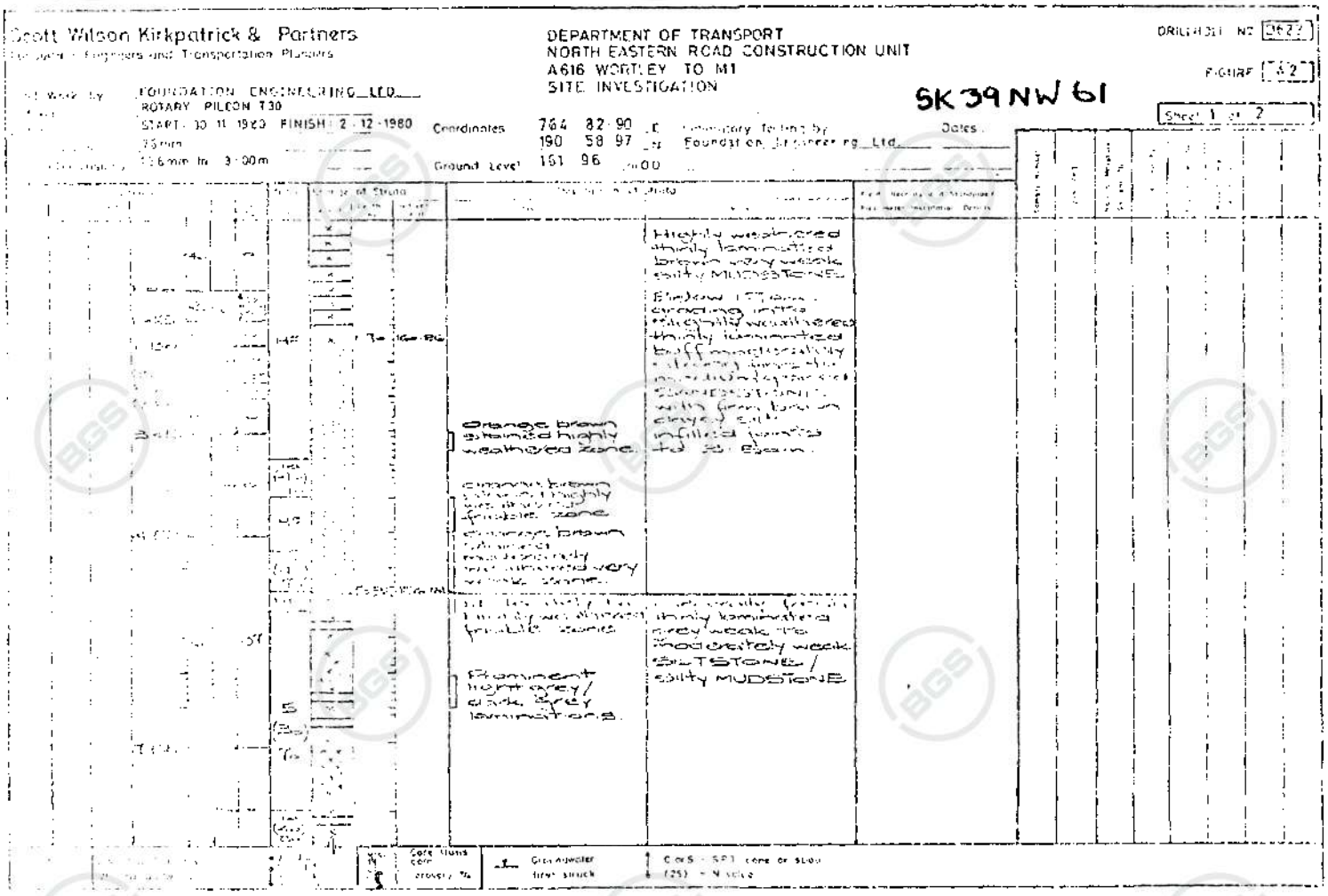
How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

Appendix 3 – BGS Borehole Logs for the area

.

British Geological Survey

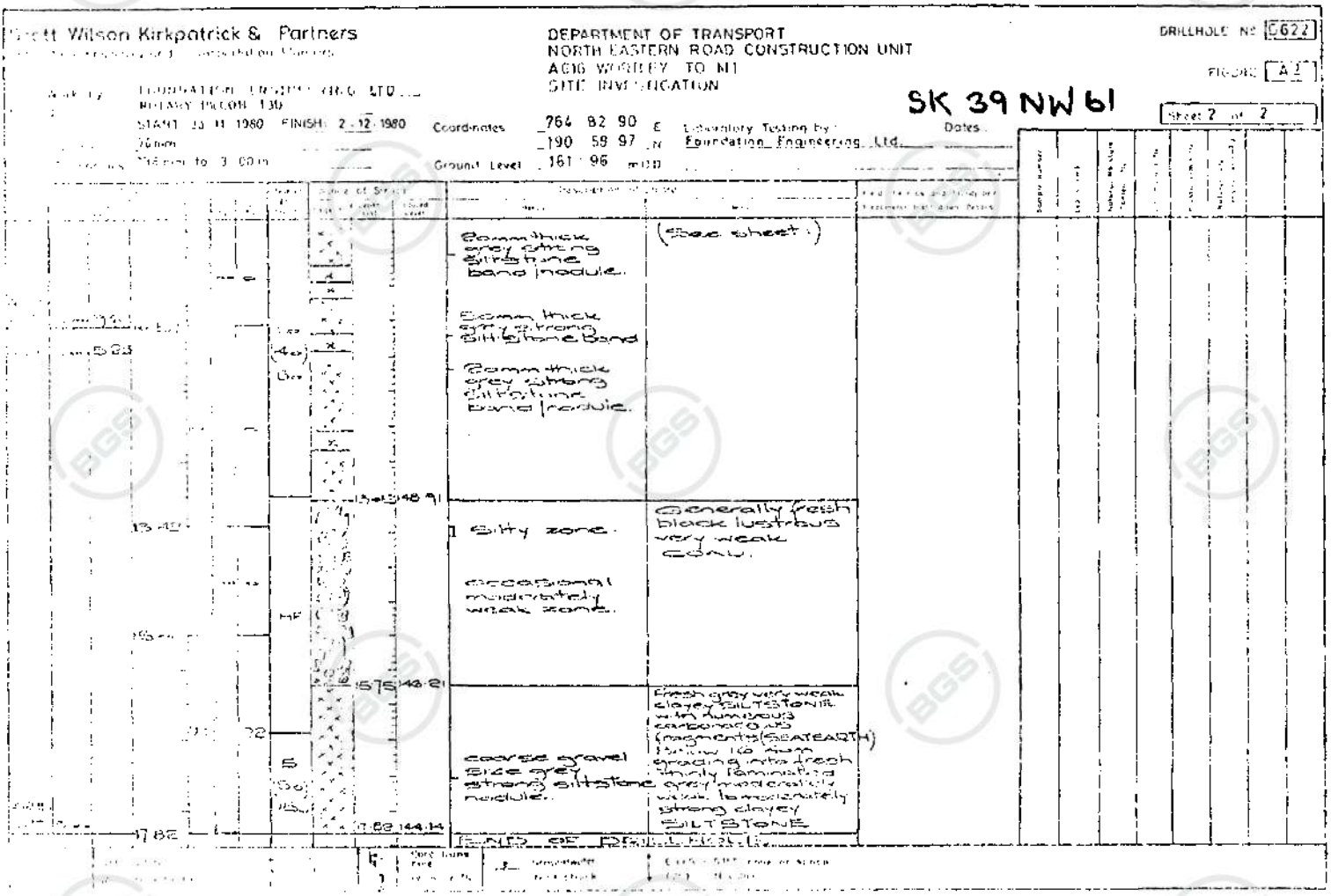
BGS ID: 215546 : BGS Reference: SK39NW61
British National Grid (27700) : 433482,399058



Contact BGS: ngdc@bgs.ac.uk

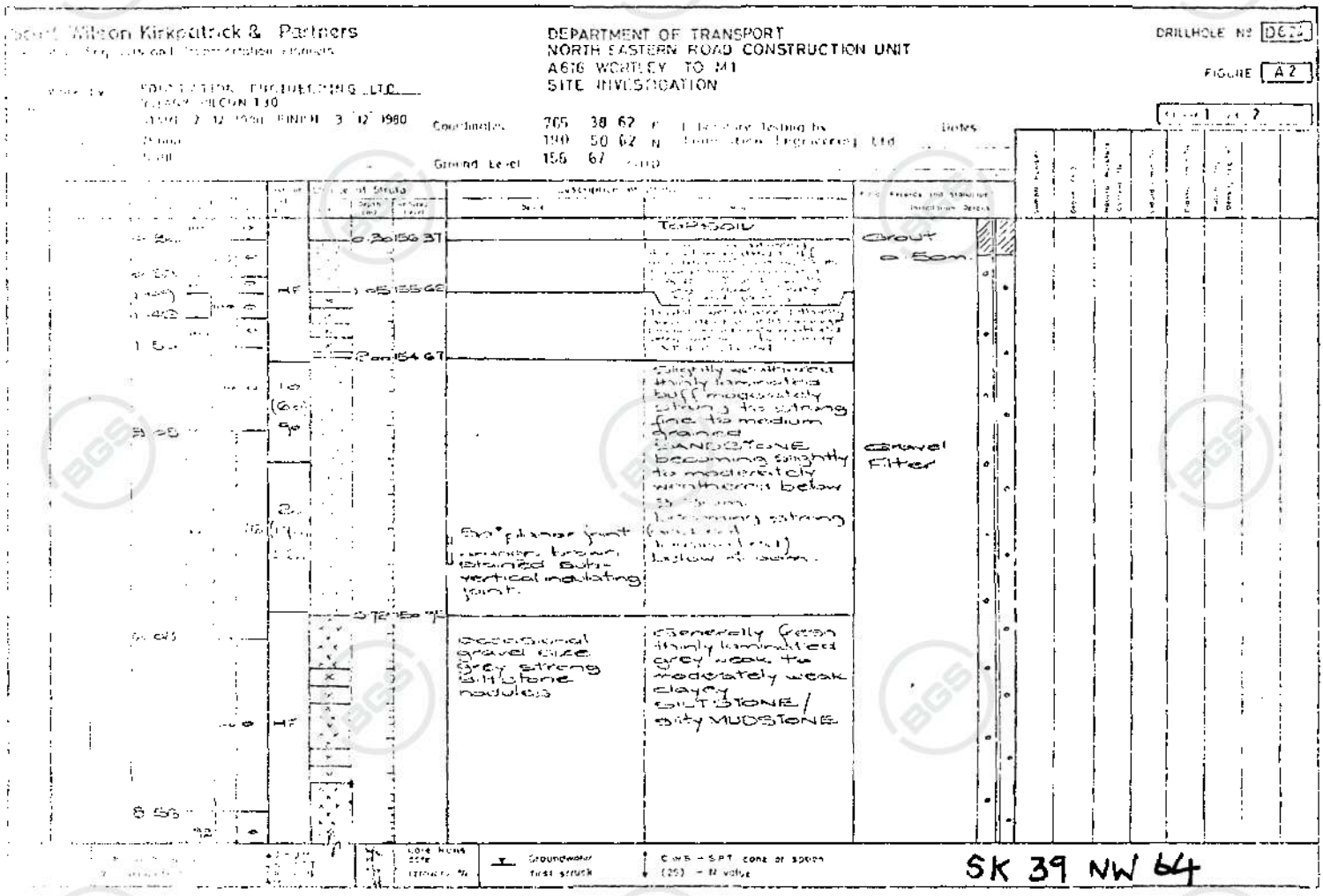
British Geological Survey

BGS ID: 215546 : BGS Reference: SK39NW61
British National Grid (27700) : 433482,399058



Contact BGS: ngdc@bgs.ac.uk

British Geological Survey



Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 215549 : BGS Reference: SK39NW64
British National Grid (27700) : 433538,399050

Scott Wilson Kirkpatrick & Partners
Consulting Engineers and Transportation Planners

DEPARTMENT OF TRANSPORT
NORTH EASTERN ROAD CONSTRUCTION UNIT
A616 WORTLEY TO M1
SITE INVESTIGATION

DRILLHOLE No. D624

FIGURE A2

Sheet 2 of 2

Field Work by: FOUNDATION ENGINEERING LTD
Method: ROTARY PILCON T30
Dates: START 2-12-1980 FINISH 3-12-1980
Core Diameter: 76 mm
Special Dimensions: NONE

Coordinates: 765 38 62 E
190 50 62 N
Ground Level: 156.67 mOD

Laboratory Testing by: Foundation Engineering Ltd.

Dates:

Depth	Description of Strata	Field Records and Standpipe Installation Details
	8mm thick grey strong Siltstone nodule. (See sheet 1)	
	coarse gravel size grey strong Siltstone nodule	
	5mm thick grey strong Siltstone band nodule	
	Slightly weathered zone	Gravel Filter
12.73	Fresh friable grey very weak silty mudstone band (SEATEARTH)	Generally fresh black lustrous very weak COAL
13.95		
14.15		Fresh grey very weak to weak silty MUDSTONE with numerous carbonaceous fragments (decreasing with depth) Below 15.8m grading into fresh locally thinly laminated light grey moderately strong sandy SILTSTONE
16.85		19.55
	END OF DRILLHOLE	

Disturbed Samples W = Groundwater

Core Runs Core recovery %

Groundwater first struck

C or S SPT cone or spoon (25) = N value

SK 39 NW 64

Contact BGS: ngdc@bgs.ac.uk

Enzygo specialise in a wide range of technical services:

Property and Sites
Waste and Mineral Planning
Flooding, Drainage and Hydrology
Landscape Architecture
Arboriculture
Permitting and Regulation
Waste Technologies and Renewables
Waste Contract Procurement
Noise and Vibration
Ecology Services
Contaminated Land and Geotechnical
Traffic and Transportation
Planning Services

BRISTOL OFFICE
The Byre
Woodend Lane
Cromhall
Gloucestershire GL12 8AA
Tel: 01454 269 237

SHEFFIELD OFFICE
Samuel House
5 Fox Valley Way
Stocksbridge
Sheffield S36 2AA
Tel: 0114 321 5151

MANCHESTER OFFICE
First Floor
3 Hardman Square
Spinningfields
Manchester M3 3EB
Tel: 0161 413 6444

Please visit our website for more information.

enzygo.com