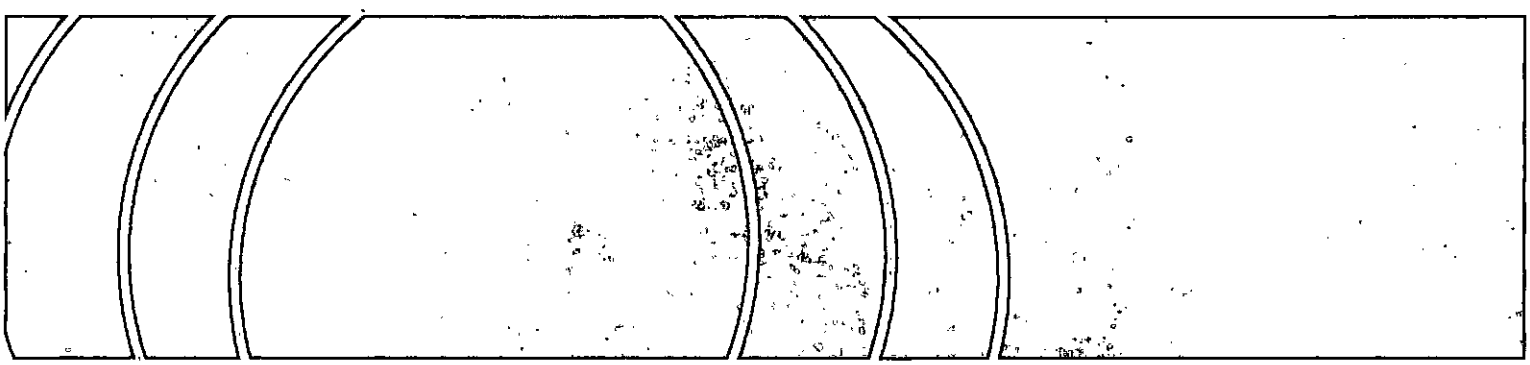
C5731
DECEMBER 2013

PRELIMINARY APPRAISAL REPORT (DESK STUDY)

Of Land at
WILTHORPE ROAD, BARNSLEY

Prepared for
PERSIMMON HOMES WEST YORKSHIRE



REPORT NUMBER:	C5731	**REPORT STATUS:**	FINAL
REPORT TYPE:	PRELIMINARY APPRAISAL REPORT (DESK STUDY)		
REPORT DATE:	DECEMBER 2013		
SITE:	WILTHORPE ROAD, BARNSLEY		
PREPARED FOR:	PERSIMMON HOMES WEST YORKSHIRE		
PREPARED BY:	Sirius Geotechnical and Environmental Ltd Russel House Suite 2 Mill Road Langley Moor Durham DH7 8HJ	Tel: 0191 378 9972 Fax: 0191 378 1537	

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PRELIMINARY APPRAISAL REPORT (DESK STUDY)

Of land off

WILTHORPE ROAD, BARNSLEY

Prepared for

PERSIMMON HOMES WEST YORKSHIRE

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NTS: Not to Scale

APPENDIX B ENVIROCHECK & GROUNDSURE REPORTS

APPENDIX C FGB MINERALS COAL MINING RISK ASSESSMENT

EXECUTIVE SUMMARY

Introduction	Sirius Geotechnical and Environmental Ltd were commissioned Persimmon Homes West Yorkshire to undertake a preliminary appraisal (desk study) of land off Wilthorpe Road, Barnsley, with a view to future low rise residential development.
Site Details	The site is irregular in shape, approximating a "T", with maximum dimensions of c. 450m north to south and 570m east to west. The site comprises open grazing land with a stream flowing from south to north in the centre of the site. In general the site falls at a shallow angle from south to north, with the stream creating up to an approximately 200m wide, gently sloping depression in the centre of the site.
Site History	The earliest maps examined showed the site as comprising fields with a stream running through it (as with present day). A track/road ran through the north eastern corner in 1855 but was no longer present by 1894. The presence of a Bleaching Green associated with Green Foot Bleach Works was adjacent to the east of the site from 1894 to 1933. There has been significant mining activity within 1km of the site. Two collieries have been present within 100m of the site and opencast workings c. 60m to the north west.
Anticipated Ground Conditions	Ground conditions are considered likely to comprise a thin weathered rock profile, consisting of granular and cohesive deposits, overlying bedrock of mudstone, sandstone and siltstone.
Mining	Risk to surface stability from potential unrecorded workings in the Barnsley Rider seam, c. 30m above the Barnsley Coal seam, cannot be discounted (low to moderate risk). It is considered prudent therefore to undertake rotary drilling to confirm the presence/absence of workable/worked coal within influencing distance of the surface and the need, or otherwise, for consolidation of said workings (ie drilling and pressure grouting).
Foundations	It is recommended that a site investigation is carried out in order to provide further information regarding these matters and to allow foundations to be designed. However, on the basis of information reviewed herein, it is considered that spread foundations should be suitable across most of the site. The need for mine stabilisation cannot be discounted at this stage. Mine stabilisation could necessitate alternative foundation solutions. Site topography needs to be considered as a potential development constraint.
Contamination	The preliminary conceptual site model indicates potential pollutant linkages to construction workers, site end-users and controlled waters, related to the soils at the site. Risks are given a qualitative assessment of 'low' and 'low to moderate'. Significant widespread contamination is not anticipated. It is recommended that a site investigation is carried out to address these matters.
Gas Risk	A ground gas risk assessment is recommended in order to assess any potential impact related to underlying coal bearing strata and off site made ground. The risk relating to this pollutant linkage is currently assessed as 'low to moderate'. According to the BGS, basic radon protective measures are required for the site.
Further Works	The following ground investigation works should be undertaken to confirm foundation design, determination of any contamination constraints and abnormal development costs: • Trial pits and window sample boreholes to investigate near surface soil and groundwater conditions and to allow recovery of soil samples for testing. Standard Penetration Tests (SPTs) to be undertaken within window sample boreholes in order to provide geotechnical data for the underlying soils / bedrock. • Soakaway tests. • A limited intrusive mining risk assessment by rotary open hole drilling in order to investigate coal seams and mining activity.

	• Installation of gas, vapour and groundwater monitoring and sampling wells in selected boreholes and subsequent monitoring and sampling. • Chemical and geotechnical laboratory testing to adequately categorise the shallow soils and groundwater

The executive summary is an overview of the key findings and conclusions of the report. There may be other information contained in the body of the report which puts into context the findings of the executive summary. No reliance should be placed on the executive summary in isolation, particularly when deriving design detail/abnormal costs.

1. INTRODUCTION

Sirius Geotechnical and Environmental Ltd (Sirius) were commissioned by Persimmon Homes West Yorkshire (Persimmon) to undertake a preliminary appraisal (desk study) of land off Wilthorpe Road, Barnsley. The land is henceforth referred to as the 'site'.

It is understood that this report is required in support of a planning application for development of the site, as well as to assist in the derivation of an opportunities and constrants plan by others. At the time of writing, Sirius were not provided with a site development layout, although it is assumed that the site end use will be low rise residential housing (no more than three storey) with private gardens, and that development levels will not change significantly from those that exist at the time of this desk study.

The objectives of the preliminary appraisal were to:

- Establish the historical development of the site and immediate surrounding area from a review of historical Ordnance Survey (OS) plans;
- Establish the environmental setting of the site;
- Evaluate whether past mining or other extractive industries could have an influence on the site;
- Determine whether historical or current activities could give rise to significant ground contamination;
- Determine the potential risk to the development from hazardous ground gas sources, including radon;
- Make provisional recommendations for foundations and measures to deal with potential contamination; and,
- Provide recommendations for intrusive works required to confirm the ground conditions below the site and the contamination status of the shallow soils, and, from this, foundation solutions and measures to deal with any contamination.

This desk study includes an assessment of information provided in a Groundsure Screening report, Ordinance Survey historic maps provided by Landmark, Coal Mining Risk Assessment Report by FJB Minerals (which includes a site specific Coal Authority (CA) report) and British Geological Survey (BGS) information. A site inspection (walk over survey) was undertaken by a Sirius geoenvironmental engineer on 2nd December 2013.

A pre-planning enquiry was also procured from Yorkshire Water. This is to be reported under separate cover.

This report presents and interprets the factual information reviewed during this investigation and presents a Preliminary Conceptual Site Model (PCSM) from which ground-related hazards and risks have been assessed.

It has been assumed in the production of this report that the site is to be developed for a low rise 'residential with gardens' end use. In addition, it is assumed that ground levels will not change significantly from those described in this report. If this is not the case, amendments to the recommendations made in this report may be required.

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

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2. SITE DETAILS AND DESCRIPTION

Table 2.1 Current Site Overview

Location	The site is located to the north of Wilthorpe Road, Barnsley, approximately 1.5km northwest of Barnsely town centre. A site location plan is included as Drawing No.C5731/01, within Appendix A.
National Grid Reference	The site is centred at approximate NGR SE 33200 07990.
Topography and Features	The site is irregular in shape, approximating a "T", with maximum dimensions of c. 450m north to south and 570m east to west. The site comprises open grazing land with a stream flowing from south to north in the centre of the site. In general the site falls at a shallow angle from south to north, with the stream creating up to an approximately 200m wide gently sloping depression in the centre of the site. The site boundary with Wilthorpe Road to the south is formed by a masonry retaining wall, retaining Wilthorpe Road to the south. The retaining wall is approximately 3m high at its maximum. The central stream enters the site in the south via a culvert beneath Wilthorpe Road and exits the site in the north via another culvert beneath a railway embankment. The length of the stream is heavily overgrown with shrubs, bushes and semi mature trees. The railway to the north is on a small (c.1m) embankment in the east with the embankment becoming c.5-6m high in the area of the stream depression. To the west of the stream depression the railway is situated in a heavily wooded cutting, c.10m lower than the site. Vehicle access in the west of the site is via a track leading off Redbrook Business Centre Road.
Approximate Site Area	12.7 hectares.
Site Boundaries/Adjacent Land Uses	The site is bound by a railway line to the north, school playing fields in the north east, residential properties in the southeast, and Wilthorpe Road to the south, beyond which are residential properties. In the southwest, the site is bound by commercial properties including an automotive parts retailer and tennis courts. To the west the site is bound by mature trees, beyond which is Redbrook Business Park.
Current Land Use	The site comprises open grazing land.

Invasive Plant Species	None noted. An ecological survey should be carried out if not previously undertaken to confirm the absence of any invasive plant species.

The main site features are shown on Drawing No. C5731/02, within Appendix A.

3. ENVIRONMENTAL SETTING

3.1. Introduction

Published environmental, geological and historical data relating to the site has been reviewed. A summary of relevant information is provided below and a copy of the Groundsure report and historical mapping provided by Landmark is enclosed in Appendix B.

3.2. Site History

Table 3.1 presents a summary of the site history from 1855 to 2013. It is not the intention of this report to describe in detail all of the changes that have occurred on, or adjacent to, the site, only those pertinent to the proposed development.

Table 3.1 Site History

Map Dates	On-Site Features	Off-Site Features (only features within 500m that may affect the site are listed)
1855	The site predominantly comprises open fields A track/road enters the site in the north eastern corner and runs in a north east south west direction. A stream runs through the site in a north south direction, much as with its current day position.	Fields predominantly surround the site to the east, south and west. The Lancashire and Yorkshire railway line runs along the northern boundary to the site. Saw pit shown approximately 60m east. Approximately 40m north east of the site, Gawber Colliery is shown, along with a shaft. Approximately 250m east of the site lies Greenfoot Bleach Works (Linen & Cotton), with associated reservoirs. Approximately 380m north, the Barnsley Canal is present, which the onsite stream issues into.
1892 - 1894	The track/road is no longer shown to pass through the north east corner of the site.	Gawber Colliery no longer shown. Bleaching Green, associated with Greenfoot Bleach Works, shown adjacent to the north eastern part of the site. Shaft, 310m east, associated with Greenfoot Bleach Works. Saw Pit no longer recorded.
1906 - 1907	No significant change.	Redbrook Colliery, 50m west.
1931-33	No significant change.	Bleaching Green adjacent to the site boundary no longer labelled. Bleaching Works no longer labelled, although the associated reservoirs are still shown. Redbrook Colliery no longer shown, although old shafts are marked 100m and 110m west of the site. Housing shown to the south east.

Map Dates	On-Site Features	Off-Site Features (only features within 500m that may affect the site are listed)
1938 - 1956	No significant change.	The former Redbrook Colliery site is now annotated as a Colliery, with similar layout as that of 1931. Residential housing shown to the south west.
1959 – 1962	No significant change.	The former Redbrook Colliery has expanded to the west and includes a significant spoil heap. Wilthorpe Primary School and associated playing field, shown 30m southeast, occupies the former Bleaching Green area. Garage adjacent to southwest boundary.
1966 – 1989	No significant change.	Field, approximately 60m north west, annotated as opencast workings (1966 – 1978). Previously rail lines had served this area from a Coalite Works some 750m to the north west. Area of colliery spoil to the west of the site (former Redbrook/Dodworth Colliery) annotated as disused tip from 1973.
1991 - 2013	No significant change.	Area of former Redbrook Colliery and disused tip to the west of the site now shown as Redbrook Business Park.

In summary, the earliest maps reviewed showed the site as comprising fields with a stream running through it. A track/road ran through the north eastern corner in 1855, but was no longer present by 1892. The presence of a Bleaching Green, associated with Greenfoot Bleach Works, was shown adjacent to the east of the site from 1894 to 1933.

There has been significant mining activity within 1km of the site. Two collieries have been present around the site, both within approximately 100m; Gawber Colliery some 40m to the north east and Redbook Colliery (latterly referred to as Dodworth Colliery), some 50m to the west. In addition there were also opencast workings c. 60m northwest of the site. The extents of these workings are not shown clearly on the maps.

3.3. Published Geological Information

A summary of available published geological information is provided in Table 3.2 below.

Table 3.2 Geological Summary

Sources of Information	BGS 1:10,000 scale geological map (Sheet SE 30 NW, showing solid and drift deposits). BGS lexicon of named rock units. BGS on-line borehole records and 'Geology of Britain' viewer. FGB Minerals, Coal Mining Risk Assessment (Appendix C). Coal Authority Report, ref 51000148183001 (20 September 2012).
Made Ground	No made ground is shown beneath the site. A significant area of made ground is shown approximately 230m northwest of the site associated with former open cast workings and a smaller area of made ground is shown approximately 50m west of the site, in a similar location to the colliery spoil heap / disused tip associated with the former Redbrook Colliery.
Drift Geology	No drift is indicated on the 1:10,000 scale mapping, although alluvium should be expected in the vicinity of the stream which crosses the site.
Solid Geology	The geological mapping for the area (and the on-line 'Geology of Britain' viewer) indicate that deposits of the Pennine Middle Coal Measures are present at the surface across the site. These deposits are described as mainly comprising mudstone, siltstone and sandstone. A series of BGS trial pit records (SE30NW615 to SE30NW625) from c.100m southwest of the site indicates that a weathered rock profile consisting of stratified clays and gravels is present at shallow depth. Rockhead was generally found in these trial pits to be between 1.10m and 2.10m below ground level (bgl). The Barnsley Rider coal, 0.16 to 0.61m thick, is inferred to outcrop approximately 170m west of the site, dipping to the east i.e. beneath the site. The Barnsley Coal, is conjectured to be stratigraphically 30m beneath the Barnsley Rider coal seam. The Barnsley coal seam is recorded to be between 2.29m to 3.10m thick in the general area. The Redbrook Colliery shaft (BGS BH: SE30NW12), 100m west of the site, records the Barnsley Coal as 2.59m thick and at 42.24m bgl. Solid strata is indicated to dip at approximately 5° to the north east. No faults are indicated as crossing the site.
Mining and Quarrying	The Coal Authority (CA) report, presented in Appendix B, states that the site is in the likely zone of influence from workings in seven seams of coal at 40m to 420m depth, last worked in 1987. From BGS borehole records it is considered that the

	shallowest recorded worked seam is the Barnsley Coal. There are no records of opencast coal mining within the site boundary. The CA report notes that there are no known coal mine entries on or within 20m of the site. However, geological mapping notes the presence of numerous shafts or pits in the general vicinity of the site. The CA report notes that reserves of coal exist in the local area which could be worked at some time in the future. The CA website notes that the site is out with a high risk development area. The site is not within an area affected by brine extraction.

3.4. Hydrology and Hydrogeology

A summary of available information pertaining to hydrology and hydrogeology is presented in Tables 3.3 to 3.5 below.

Table 3.3 Surface Water Features

	Presence/Location	Comments
EA GQA Classified Watercourses (within 500m)	None recorded.	
Unclassified Watercourses (within 500m)	An unnamed stream flows from south to north through the site and issues into Barnsley Canal 300m to the north.	
Licensed Surface Water Abstractions (within 1000m)	None recorded	No potable surface water abstractions are reported within 2km of the site.
Surface Water Features (Canals, Ponds, Lakes, etc.) (within 250m)	A small pond associated with Redbrook Business Park is present 120m west of the site.	
Flood Risk Status	The site is not indicated as being within indicative Zone 2 or Zone 3 floodplains. A flood risk assessment has not been requested as part of these works.	

Table 3.4 Groundwater Occurrence and Abstraction

	Presence/Location	Comments
Licensed Abstractions (within 1km)	None recorded.	Two potable groundwater abstractions are present 1,724m and 1,781m south of the site. Both extractions are for bottling water from sandstone within Middle Coal Measures Strata.
Groundwater Source Protection Zones (within 500m)	None recorded.	
Springs	None recorded.	

Table 3.5 Groundwater Vulnerability Status

	Environment Agency Classification
Groundwater Classification	Bedrock Aquifer Designations – Middle Coal Measures is classed as a Secondary (A) Aquifer.

3.5. Landfilling and Waste Management

Details of identified landfilling and waste management activities are presented in Table 3.6.

Table 3.6 Waste Management Activities

	Presence/Location	Comments
Local Authority Recorded Landfills (within 1.5km)	Seven local authority landfill sites are present within 1.5km of the property. The closet refers to a refuse tip 528m southwest of the site.	
Historical Landfill Sites (within 1.5km)	A total of 35 historical landfill sites are recorded within 1.5km of the property, the closest of which is 12m west of the site at Redbrook Business Park.	
Other Licensed Waste Management Facilities (within 500m)	None recorded.	

	Presence/Location	Comments
Evidence of Landfilling On or Within 250m of Site	Historic opencast site, 60 - 230m northwest of the site (distance unconfirmed) and colliery spoil heap / disused tip associated with the former Redbrook Colliery, 80m west of the site.	
Site Inspection Evidence of Fly-Tipping on Site?	None noted at time of inspection.	
Ground Gas Risk Assessment Required?	On the basis of the made ground present to the northwest and west of the site and the presence of coal bearing strata at shallow depth beneath the site, it is considered that a ground gas investigation at the site is necessary.	

3.6. Radon Risk

To determine whether the site is at risk from radon gas, the BRE Document 'BRE 211 - Radon: Guidance on the protective measures for new dwellings' together with the National Radiological Protection Board (NRPB) 'Radon Atlas of England and Wales' have been referenced.

These documents, together with a geological assessment contained within the Envirocheck report, which includes information obtained from the Health Protection Agency (HPA) and British Geological Survey, state that the site lies within an area in which **basic radon protective measures are required.**

3.7. Other

Other potentially contaminative activities or environmental constraints are listed below. The entries relate to activities within approximately 250m of the site, with the exception of COMAH (Control of Major Accident Hazards) and NIHHS (Notifications of installations Handling Hazardous Substances) facilities where the assessment is extended to a distance of approximately 500m from the site.

- No Local Authority Pollution Prevention and Control, Integrated Pollution Control, Integrated Pollution Prevention and Control or Local Authority Integrated Pollution Prevention and Control activities are noted within 250m of the site.
- No Discharge Consents are reported within 250m of the site.
- There are no COMAH or NIHHS authorisation facilities within 500m of the site.

4. PREVIOUS INVESTIGATION FINDINGS

No previous desk study or site investigation reports relating to this site have been made available.

5. PRELIMINARY CONCEPTUAL MODEL

Based on the desk study, a combined preliminary conceptual site model and conceptual exposure model (CSM) has been developed for the proposed future residential land use. This section summarises the understanding of surface and sub-surface features, the potential contaminant sources, transport pathways and receptors in order to assess potential pollutant linkages.

Potential sources of contamination at this site include:

- Metals, asbestos, organic and inorganic substances in soils associated with the railway land to the immediate north of the site.
- Substances in soils associated with the historic Bleaching Green to the east.
- Ground gas from coal bearing strata beneath the site and from off site made ground, colliery spoil / disused tip and infilled opencast site.
- Leachable metals, organic and inorganic substances in shallow soils.

A qualitative risk assessment has also been made of the likelihood of any complete pollutant linkage and its potential significance.

The preliminary conceptual model for the site is presented in schematic form as Drawing No. C5731/03 in Appendix A.

In summary, the preliminary CSM has identified the following potential pollutant linkage which could result in an unacceptable risk to the proposed end-use:

- Direct and indirect ingestion, inhalation of particles and dust, inhalation of vapour and sulphate attack associated with metals, asbestos, organic and inorganic substances.
- Migration, generation and accumulation of ground gas.
- Migration of leachable metals, organic and inorganic substances into on site stream and underlying Secondary A aquifer (controlled waters).

Currently, the risk associated with each of these linkages is considered as low or low to moderate.

6. CONCLUSIONS AND RECOMMENDATIONS

6.1. General

It is understood that this report is required in support of a planning application for development of the site, as well as to assist in the derivation of an opportunities and cosntraints plan. It is assumed that the site end use will be low rise residential housing. At the time of writing, Sirius were not provided with a site development layout.

6.2. Flood Risk

From the Envirocheck report, the site is not indicated as being within indicative Zone 2 or Zone 3 floodplains.

6.3. Geotechnical

Mining and Quarrying

Risk to surface stability from historic recorded workings in the Barnsley coal seam is considered low/negligible.

Risk to surface stability from potential unrecorded workings in the Barnsley Rider seam, c. 30m above the Barnsley coal seam, cannot be discounted (low to moderate risk). It is considered prudent therefore to undertake rotary drilling to confirm the presence/absence of workable/worked coal within influencing distance of the surface and the need, or otherwise, for consolidation of said workings (i.e. drilling and pressure grouting).

No known coal mine entries are recorded to be present within the site or within 20m of the site. However, the presence of unrecorded mine shafts cannot be discounted.

The CA report notes that the site is located in an area where reserves of coal could be worked at some time in the future.

Slope Stability

It is recommended that Network Rail is contacted to discuss their requirements for any slope stability assessments if any development is proposed within influencing distance of the c10m deep railway cutting adjacent to the northwest of the site.

Foundations

Published geological information, and other data gathered by this preliminary investigation, indicates that the site is underlain at shallow depth by mudstone, siltstone and sandstone bedrock.

The nature and depth of foundations will be dependent on loadings, layout and the detailed site geology, including:

- The presence and thickness of made ground;
- The site-specific nature and extent of any proven mine workings;
- Bearing capacity of the natural strata;
- Groundwater levels; and,
- Proximity to trees where potentially shrinkable soils are present.

It is recommended that a site investigation is carried out in order to provide further information regarding these matters and to allow foundations to be designed. However, on the basis of information reviewed herein, it is considered that shallow spread foundations, locally deepened to trench fill foundations, should be adequate for proposed residential properties across most of the site.

The need for mine stabilisation cannot be discounted at this stage. Mine stabilisation could necessitate alternative foundation solutions.

6.4. Contamination

Risk Evaluation for the Proposed Land Use (Residential with Plant Uptake)

The preliminary conceptual site model indicates that pollutant linkages are possible to future site occupants and controlled waters. Risks related to these potential linkages are currently given a qualitative assessment of 'low' and 'low to moderate'. Significant widespread contamination is not anticipated. The precise nature of the risks should be investigated further through site investigation.

6.5. Ground Gas

Based on the ground conditions identified during this appraisal, it is considered that there is potential for ground gas generation, accumulation and migration to occur as a result of the presence of coal bearing strata beneath the site, and off site made ground within 500m. Risks related to these potential linkages are currently given a qualitative assessment of 'low to moderate'. The precise nature of the risks should be investigated further through site investigation.

According to the BGS, basic radon protective measures **are** required for the site.

6.6. Invasive Plants

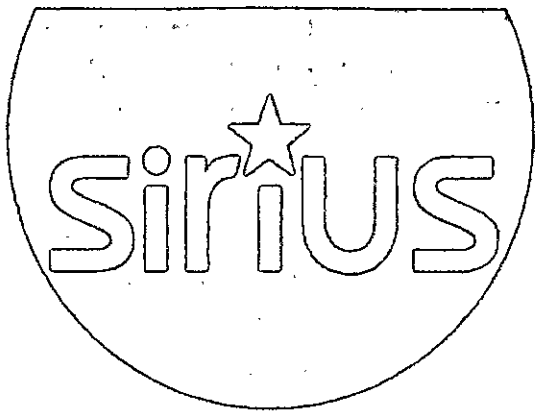
Invasive plant species were not observed during the site inspection. The absence of such species should be confirmed by an appropriately qualified ecologist.

7. FURTHER INVESTIGATION

The following ground investigation works are recommended to allow foundation design, and confirmation of any mining and / or contamination constraints:

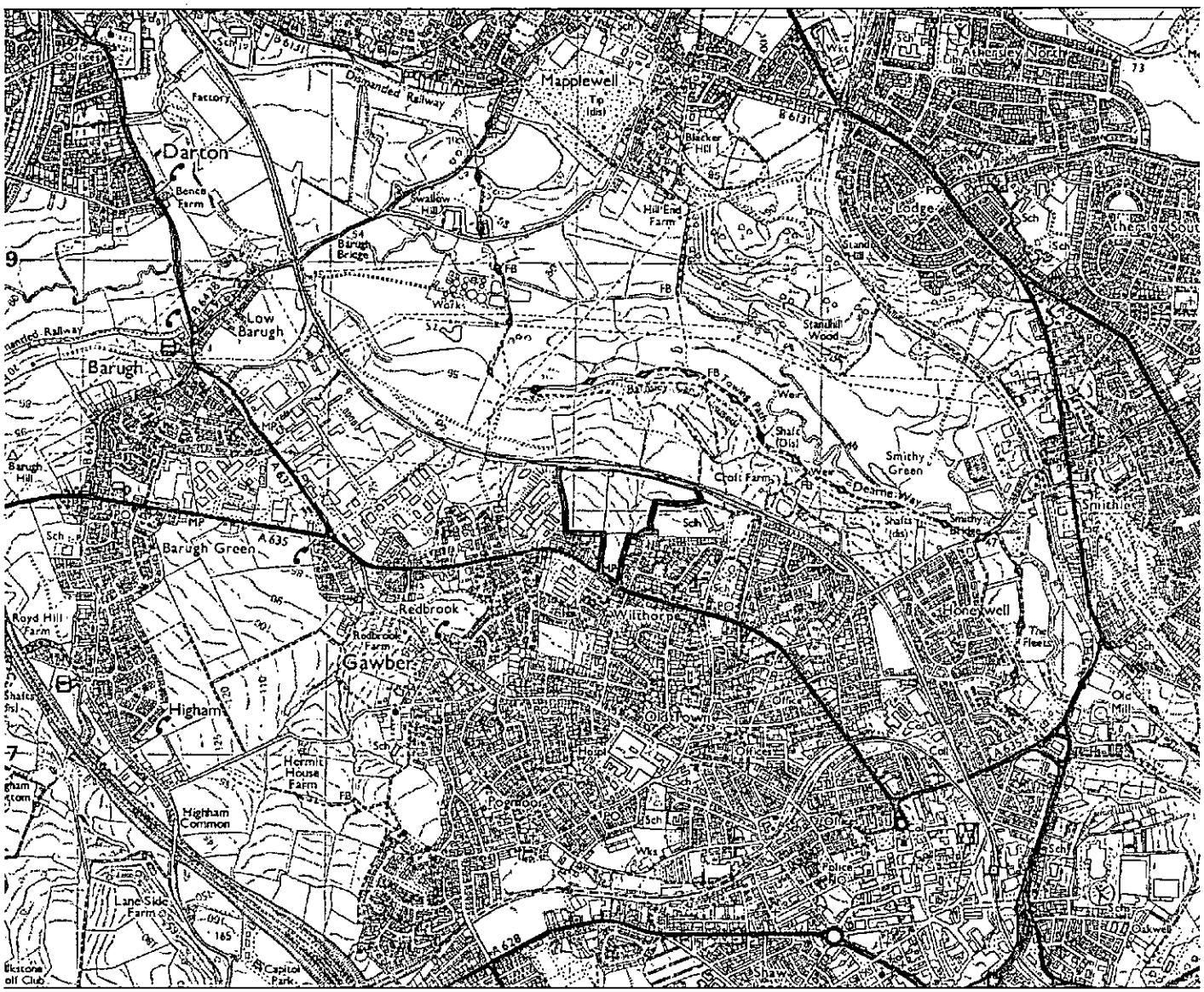
- Trial pits and window sample boreholes to investigate near surface soil and groundwater conditions and to allow recovery of soil samples for testing. Standard Penetration Tests (SPTs) to be undertaken within window sample boreholes in order to provide geotechnical data for the underlying soils / bedrock.
- Soakaway tests.
- A limited intrusive mining risk assessment by rotary open hole drilling.
- Installation of gas, vapour and groundwater monitoring and sampling wells in selected boreholes and subsequent monitoring and sampling.
- Chemical and geotechnical laboratory testing to adequately categorise the shallow soils and groundwater.
- Reporting.

An invasive plant survey should be undertaken.



APPENDIX A

FIGURES AND DRAWINGS



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NOTES

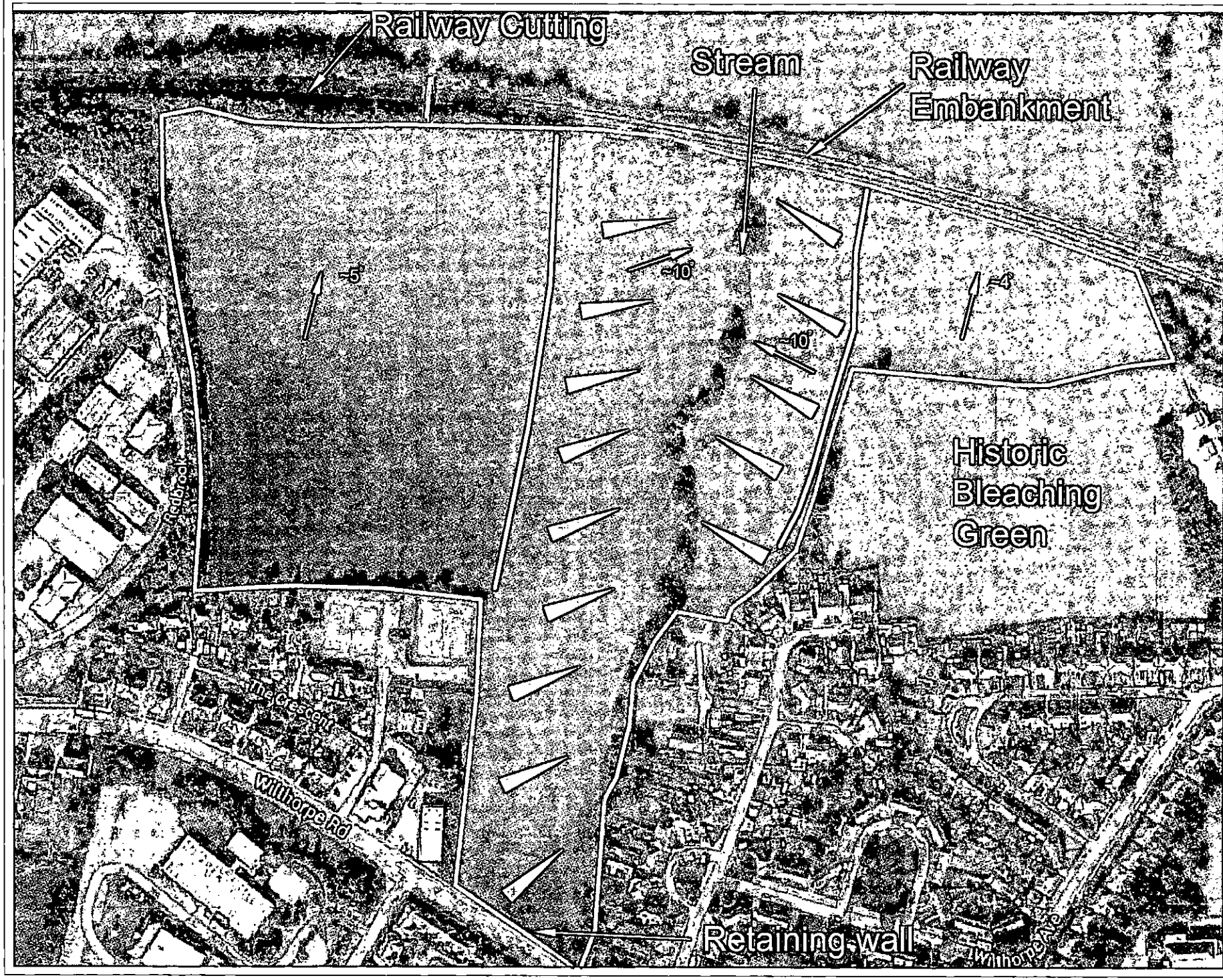
Site Location

REVISION		CLIENT	DRAWING NO.	REVISION NO.
0	For Information	Persimmon Homes	C5731/01	0
A	"			
B	"			
C	"			
D	"			

SITE	DRAWN BY	APPROVED BY
Willthorpe Road, Barnsley	LAB	RH

DRAWING TITLE	DATE	SCALE	
Site Location Plan	11/12/2013	1:25,000	A4

SIRIUS GEOTECHNICAL & ENVIRONMENTAL
Russel House, Mill Lane, Langley Moor Durham DH7 8HJ
www.sirius-egeom.com
TEL: 0191 378 9572
FAX: 0191 378 1537



NOTES

Site Boundary

10° Break of slope, slope angle and direction indicated by arrows

REVISION

0	Information
A	>>
B	>>
C	>>
D	>>

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CLIENT

Persimmon Homes

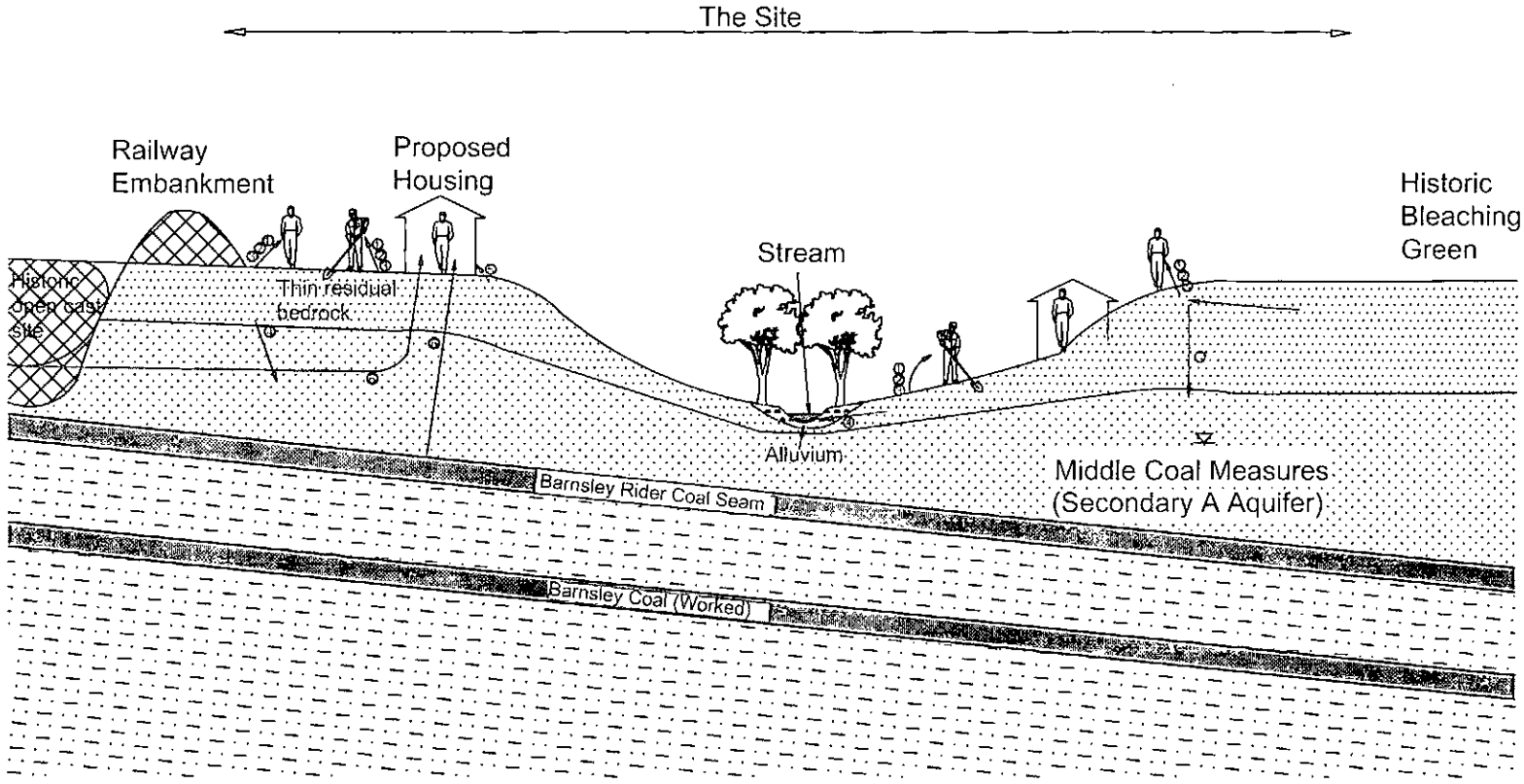
SITE

Wilthorpe Road, Barnsley

DRAWING TITLE

Site Features

DRAWING NO.	REVISION NO.
C5731/02	0
DRAWN BY: LAB	APPROVED BY: RH
DATE: 11/12/2013	SCALE: NTS
PAPER SIZE: A3	



Contamination Source	Contamination Pathway	Potential Receptor	Likelihood of Significant Pollutant Linkage
Metals, asbestos, organic and inorganic substances in soils associated with railway land to the north	①Direct and indirect ingestion ②Inhalation of contaminated dust ③Dermal contact	End users	Low to moderate
		Construction workers	Low to moderate
	④Leaching	Controlled waters (onsite stream and Secondary A Aquifer)	Low
Inorganic substances in soils associated with historic Bleaching Green to the east	①Direct and indirect ingestion ②Inhalation of contaminated dust ③Dermal contact	End users	Low to moderate
		Construction workers	Low to moderate
	④Leaching	Controlled waters (onsite stream and Secondary A Aquifer)	Low
Sulphate's and low pH values within soils	⑤Direct contact with construction materials	Construction products including buried services and concrete	Low to moderate
Hazardous ground gas from underlying coal bearing strata and offsite made ground	⑥Migration and accumulation of gases in indoor air	End users	Low to moderate

NOTES

REVISION

0	For Information
A	>>
B	>>
C	>>
D	>>

SIRIUS GEOTECHNICAL & ENVIRONMENTAL
Rural House,
Mill Lane,
Langley Moor
Durham DH7 8HU
TEL: 0191 378 9972
FAX: 0191 378 1557

CLIENT

Persimmon Homes

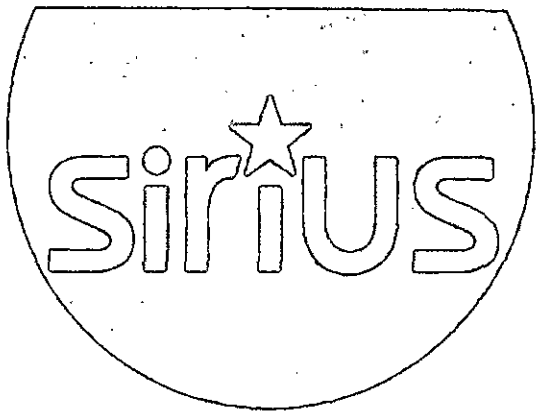
SITE

Wilthorpe Road,
Barnsley

DRAWING TITLE

Preliminary Conceptual Site Model

DRAWING NO.	REVISION NO.
C573/003	0
DRAWN BY: SB	APPROVED BY: LAB
DATE: Dec 2013	SCALE: NTS	PAPER SIZE: A3



APPENDIX B

ENVIROCHECK & GROUNDSURE REPORTS

The Coal Authority

The Coal Authority Property Search Services
200 Lichfield Lane, Berry Hill,
Mansfield, Nottinghamshire, NG18 4RG
Phone: 0845 762 6848
DX 716176 MANSFIELD 5

GroundSure Reference:	51000148183001
Our Reference:	51000148183001
Your Reference:	LRM
RRUID:	000000000113000174
Report Date	Sep 20, 2012

Commercial Enviro All-in-One

Address: LAND AT WILTHORPE ROAD, WILTHORPE ROAD, WILTHORPE, BARNSLEY, SOUTH YORKSHIRE

Thank you for placing your order with the Coal Authority Property Search Services.

Please find enclosed the GroundSure Screening and Coal Authority CON29M Coal Mining and Brine Subsidence Claim report.

This table summarises whether the Coal Authority consider that the following conditions may affect the ground stability at the location above. A fuller explanation of the condition and its potential to result in ground movement are given in Appendix 1 at the back of the report.

Coal Mining	yes
Brine Compensation Area	no

If you need any further assistance, please do not hesitate to contact our helpline on 0845 762 6848 quoting the above report reference number.

Enc.
GroundSure Screening and the Coal Authority CON29M Coal Mining And Brine Subsidence Claim Report

GroundSure Screening

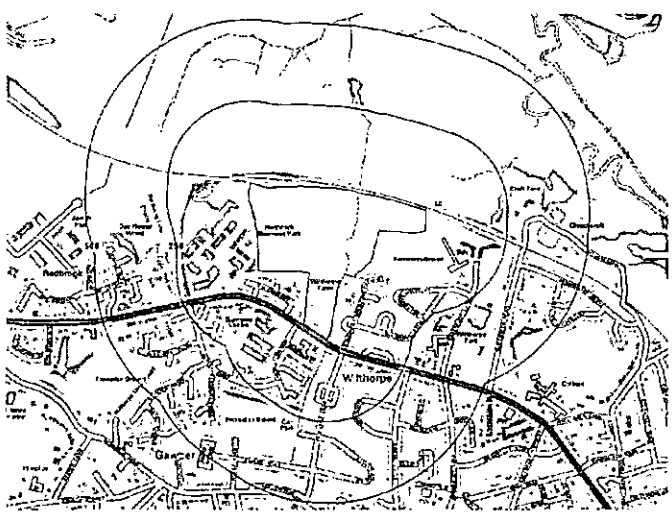
Address: LAND AT WILTHORPE ROAD, WILTHORPE ROAD, WILTHORPE, BARNSLEY, SOUTH YORKSHIRE

Date: Sep 20, 2012

GroundSure Reference:51000148183001

Your Reference: LRM

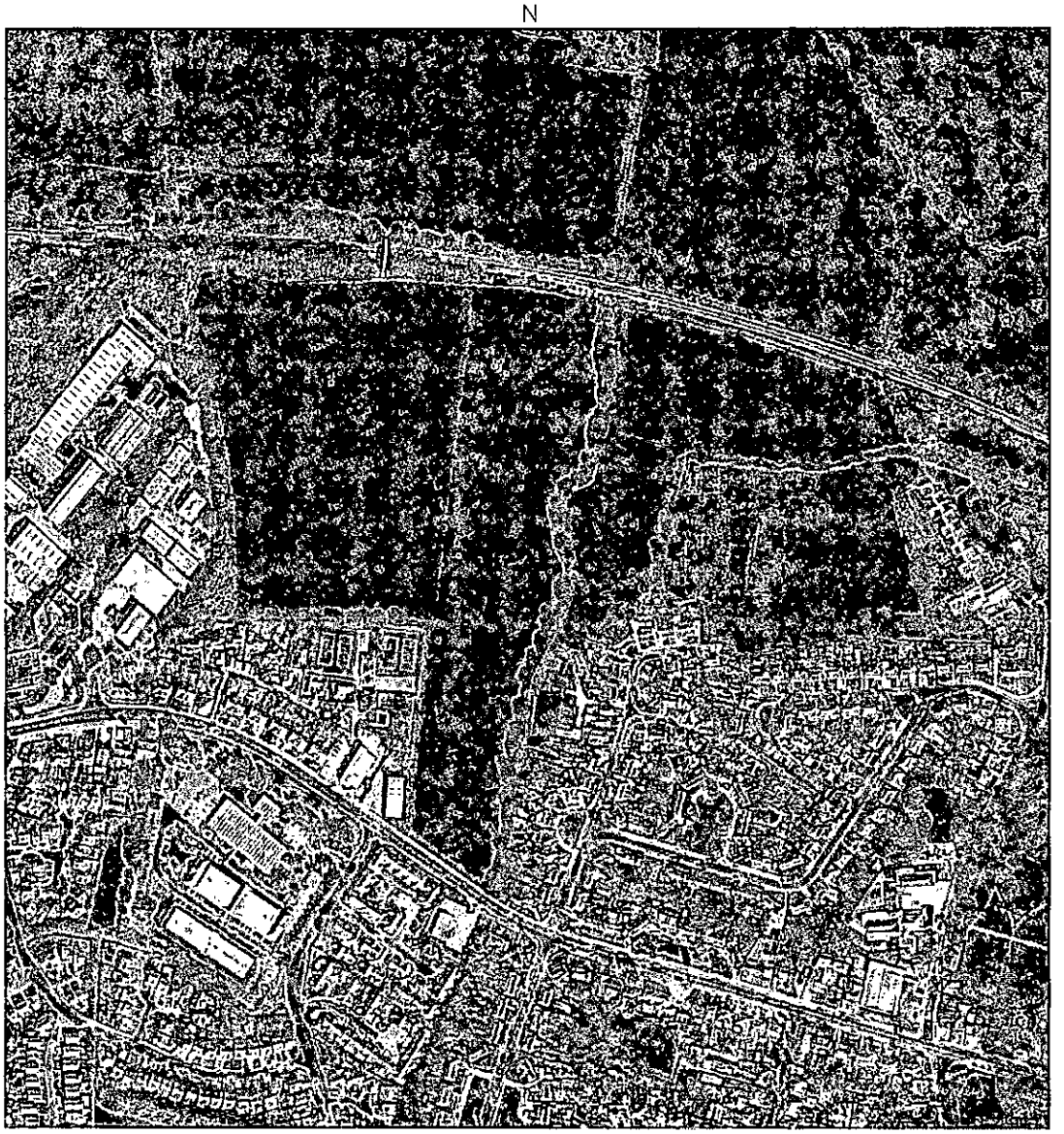
Client: The Coal Authority



Brought to you by the Coal Authority Property Search Services

Aerial Photograph of Study Site

NW N NE



◄W E►

SW S SE

Aerial photography supplied by Getmapping PLC.
© Copyright Getmapping PLC 2003. All Rights Reserved.

Site Name: LAND AT WILTHORPE ROAD, WILTHORPE ROAD, WILTHORPE, BARNSLEY, SOUTH YORKSHIRE

Grid Reference: 433170,408016

Size of Site: 12.37 ha

Report Reference: 51000148183001

Executive Summary

The following opinion is provided by GroundSure on the basis of the information available at the time of writing and contained within this report.

In Need of Further Assessment

Is there a risk of statutory (e.g. Part IIA EPA 1990) or third party action being taken against the site?	In Need of Further Assessment
Does the property represent Acceptable Banking Security from an environmental risk perspective?	In Need of Further Assessment
Is there a risk that the property value may be impacted due to environmental liability issues?	In Need of Further Assessment
What is the potential for environmental risk associated with property ownership i.e. that a prudent purchaser may wish to consider further?	Moderate – High

The Coal Authority Assessment

This table summarises whether the Coal Authority consider that the following conditions may affect the ground stability at the location above. A fuller explanation of the condition and its potential to result in ground movement are given in Appendix 1 at the back of this report.

Coal Mining	yes
Brine Compensation Area	no

This assessment is based on and limited to the records held by the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Recommendations

GroundSure considers that the following further actions may further clarify the identified environmental risks:

- Undertake vendor enquiries in respect of actions taken to mitigate the potential contaminative risk posed by the nearby landfill site during development.
- Undertake consultations with the local authority regarding the status of the site within the authority's Contaminated Land Inspection Strategy, with particular regard to the identified landfill site.
- Undertake a Phase 1 Environmental Risk Assessment. GroundSure would be pleased to provide you with a quotation to undertake this further more detailed assessment of the property. The cost of the Phase 1 would include a discount to reflect the entire cost of the report already undertaken.

If you would like any further assistance regarding this report, then please contact the GroundSure Helpline on 08444 159000.

Environmental Consultancy: GroundSure Environmental Consultants are available to discuss the findings of this report free of charge and to assist in possible solutions where reports are determined to be In Need of Further Assessment, or where other outstanding environmental issues require further consideration.

Environmental Insurance: Environmental insurance may be available for the subject property. Please contact GroundSure for further details.

Consultant's Opinion

Issue	Guidance
Current land use	GroundSure has not been advised by the client (or their advisers) of the current use of the property. GroundSure has therefore made a best judgement based on the available information that the property is likely to be undeveloped land.
Proposed land use	GroundSure has not been advised by the client (or their advisers) of the proposed use of the property. GroundSure has therefore made a best judgement based on the available information that the property is likely to continue to be undeveloped land.
On site potentially contaminative issues	No potentially contaminative land uses have been identified at the study site.
Off site potentially contaminative issues	The following land uses of significant concern have been identified in proximity to the study site: • a former landfill located 12m to the west of the study site. However, no information is available regarding the type of waste and dates of operation. Additionally, past and current garage of moderate concern have been identified in proximity to the study site.
Potentially vulnerable receptors	Potentially vulnerable receptors have been identified including site users, adjacent residents, the drain on-site ad the underlying Secondary A aquifer in the bedrock geology. In addition, a potable groundwater abstraction licence has been identified 1724m to the south.
Conclusion	GroundSure has not identified a potential source-pathway-receptor relationship that may give rise to significant environmental liability. Please refer to the GroundSure Risk Assessment Methodology contained within this report.

Additional Matters

The following additional risk issues are outside the scope of the opinion provided by this report. However, further consideration of these may be appropriate for the subject property.

Issue	Guidance
Site specific features	This report has considered additional site specific information, where provided, however it has not included a site inspection. Additional issues may be present at the property that cannot be reasonably identified by a report of this nature. Such issues may include but not be limited to: ozone depleting substances, oil storage, waste management, materials handling, site drainage, etc. Should these issues be considered to be of concern further specific assessments may be required via additional surveys, inspections, etc.
Asbestos	The Control of Asbestos Regulations 2006 require an Asbestos Management Plan to be maintained for all commercial property constructed prior to 2000 i.e. where asbestos may be contained within the building fabric. Refurbishment or demolition of site structures may require further Refurbishment and Demolition Asbestos Surveys.
Infilled Land	Areas of infilled land have been identified at or in close proximity to the property. In the first instance it would be prudent to seek the views presented by a RICS accredited surveyor and/or geotechnical engineer to clarify any structural/subsidence risks and determine if possible what materials were used during the infilling process.
Flooding	The property does not lie within 25m of an Environment Agency floodplain.
Natural Ground Subsidence	No issues identified.
Shallow Mining	The BGS has identified a low-moderate potential for the property to be affected by shallow mining. Further information may be available from a RICS accredited surveyor, local Building Control or direct from the BGS. Contact details are provided in Section 12 of this report.
Radon	3-5% of properties in the area have the potential to be radon affected. A prudent purchaser may wish to contact the Health Protection Agency for further advice. Contact details are given in Section 12 of this report.
Radon Protection	Basic radon protective measures are likely to be required at the property. A prudent purchaser may wish to contact the Building Control department at the Local Authority or the Health Protection Agency for further guidance. Contact details are given in Section 12 of this report.

Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Report Section	Number of records found within (X) m of the study site boundary					
1. Historical Industrial Sites	on-site	0-50	51-250	251-500	501-1000	1000-1500
1.1 Potentially Contaminative Past Land Use						
Records of potentially contaminative past land use (1:10,000 scale mapping)	0	6	20	-	-	-
1.2 Additional Information – Historical Tanks (1:2,500,1:1,250 scale mapping)	0	0	4 *	-	-	-
1.3 Additional Information – Historical Energy Features (1:2,500,1:1,250 scale mapping)	0	0	2*	-	-	-
1.4 Additional Information – Historical Petrol and Fuel Site Database (1:2,500,1:1,250 scale mapping)	0	0	0*	-	-	-
1.5 Additional Information – Historical Vehicle Repair and Garages (1:2,500,1:1,250 scale mapping)	2	2	0*	-	-	-
1.6 Potentially Infilled Land						
Records of potentially infilled land (1:10,000)	3	13	8*	-	-	-
*51-100m						
2. Environmental Permits, Incidents and Registers	on-site	0-50	51-250	251-500	501-1000	1000-1500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations						
Records of Historic IPC Authorisations	0	0	0	0	-	-
Records of Part A(1) and IPPC Authorised Activities	0	0	0	0	-	-
Records of Water Industry Referrals (potentially harmful discharges to the public sewer)	0	0	0	0	-	-
Records of Red List Discharge Consents (potentially harmful discharges to controlled waters)	0	0	0	0	-	-
Records of List 1 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of List 2 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of Part A(2) and Part B Activities and Enforcements	0	1	1	0	-	-
Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0	-	-
Records of Licensed Discharge Consents	0	0	0	0	-	-
Records of Planning Hazardous Substance Consents and Enforcements	0	0	0	0	-	-
2.2 Records of COMAH and NIHHS sites	0	0	0	0	-	-
2.3 Environment Agency Recorded Pollution Incidents						
National Incidents Recording System, List 2	0	0	1	-	-	-
National Incidents Recording System, List 1	0	0	0	-	-	-
2.4 Sites Determined as Contaminated Land under Part IIA EPA 1990	0	0	0	0	-	-

3. Landfill and Other Waste Sites	on-site	0-50	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
Environment Agency Registered landfill Sites	0	0	0	0	0	-
Landfill Data – Operational Landfill Sites	0	0	0	0	0	-
Environment Agency Historic Landfill Sites	0	1	4	4	4	22
Landfill Data – Non-Operational Landfill Sites	0	0	0	1	4	-
BGS/DoE Landfill Site Survey	0	0	0	0	1	1
GroundSure Local Authority Landfill Sites Data	0	0	0	0	1	6
3.2 Landfill and Other Waste Sites Findings						
Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	-	-
Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	-	-
Environment Agency licensed Waste Sites	0	0	0	0	1	8

4. Current Land Uses	on-site	0-50	51-250	251-500	501-1000	1000-1500
4.1 Current Industrial Sites Data	0	1	21	-	-	-
4.2 Records of Petrol and Fuel Sites	0	0	0	0	-	-
4.3 Underground High Pressure Oil and Gas Pipelines	0	0	0	0	-	-

5. Geology	Description
5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site? *	No
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site? *	No
5.3 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
Source: Scale: 1:50,000 BGS Sheet 087	

* This includes an automatically generated 50m buffer zone around the site.

6. Hydrogeology and Hydrology	on-site	0-50	51-250	251-500	501-1000	1001-2000
6.1 Are there any records of Productive Strata in the Superficial Geology within 500m of the study site?				Yes		
6.2 Are there any records of Productive Strata in the Bedrock Geology within 500m of the study site?				Yes		
6.3 Groundwater Abstraction Licences (within 1000m of the study site).	0	0	0	0	0	-
6.4 Surface Water Abstraction Licences (within 1000m of the study site).	0	0	0	0	0	-
6.5 Potable Water Abstraction Licences (within 2000m of the study site).	0	0	0	0	0	4
6.6 Are there any Source Protection Zones within 500m of the study site?				No		

6.7 River Quality	on-site	0-50	51-250	251-500	501-1000	1001-1500
Is there any Environment Agency information on river quality within 1500m of the study site?	No	No	No	No	Yes	Yes
6.8 Detailed River Network entries within 500m of the site	1	0	3	29	-	-
6.9 Surface water features within 250m of the study site	Yes	Yes	Yes	-	-	-

7. Flooding

7.1 Are there any Environment Agency indicative Zone 2 floodplains within 250m of the study site?	Yes
7.2 Are there any Environment Agency indicative Zone 3 floodplains within 250m of the study site?	No
7.3 Are there any Flood Defences within 250m of the study site?	No
7.4 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
7.5 Are there any areas used for Flood Storage within 250m of the study site?	No
7.6 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Very Low
7.7 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	Low

8. Designated Environmentally Sensitive Sites

	on-site	0-50	51-250	251-500	501-1000	1001-1500
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	-	-
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	-	-
8.3 Records of Local Nature Reserves (LNR)	0	0	0	0	-	-
8.4 Records of Special Areas of Conservation (SAC)	0	0	0	0	-	-
8.5 Records of Special Protection Areas (SPA)	0	0	0	0	-	-
8.6 Records of Ramsar sites	0	0	0	0	-	-
8.7 Records of World Heritage Sites	0	0	0	0	-	-
8.8 Records of Environmentally Sensitive Areas	0	0	0	0	-	-
8.9 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	-	-
8.10 Records of National Parks	0	0	0	0	-	-
8.11 Records of Nitrate Sensitive Areas	0	0	0	0	-	-

9. Additional Information

	on-site	0-50	51-250	250-500
9.1 Records of mobile phone transmitters	0	0	0	0
9.2 Records of potential sites of OfCom telecommunications masts	0	0	0	0
9.3 Records of overhead transmission lines in proximity to the study site	0	0	0	1

10. Natural Hazards

10.1 What is the maximum risk of natural ground subsidence?	Very Low
10.2 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is in a Radon Affected Area, as between 3 and 5% of properties are above the Action Level
Is the property in an area where radon protection measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	Basic radon protective measures are necessary

11. Non CON29M Coal Mining Information

11.1 Are there any coal mining areas within 75m of the study site?	Yes
11.2 What is the risk of subsidence relating to shallow mining within 150m of the study site?	Low-Moderate
11.3 Are there any brine affected areas within 75m of the study site?	No
The Coal Authority CON29M Coal and Brine report	**Appendix 1**

Using this Report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between GroundSure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 250m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure underground oil and gas pipelines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on groundwater vulnerability, soil leaching potential, abstraction licenses, Source Protection Zones (SPZ) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and tidal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas and World Heritage Sites. These searches are conducted using radii of up to 500m.

9. Additional Information

Provides information on records of mobile phone transmitters, potential sites of OfCom telecommunication masts and overhead transmission lines up to 500m.

10. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon.

11. Non Con29m Mining Information

Provides information on areas of coal and shallow mining.

12. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, GroundSure provide a free Technical Helpline (08444 159000) for further information and guidance.

Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

GroundSure Risk Assessment Methodology

Framework

This report is designed to provide a basic environmental liability risk assessment for the purposes of transaction due diligence, financing arrangements and similar circumstances. The report comprises a basic risk assessment within the general principles of the source-pathway-receptor pollutant linkage model and with due regard for relevant publications issued by the Department of Environment, Food and Rural Affairs (and predecessor government departments) the British Standards Institute and the European Union.

Explicit opinion is provided with regard to potential liability for the property to be identified as "Contaminated Land" in accordance with the meaning set out in Part IIA of the Environmental Protection Act 1990. Consideration and due regard is also made of associated legislation that may lead to related statutory or third party environmental liability, including but not limited to the Water Resources Act 1991,the Water Act 2003, the Contaminated Land Regulations 2006, Environmental Permitting Regulations 2007.

This report does not contain a detailed Conceptual Site Model as required in Planning Policy Statement 23, however, it may prove highly effective in determining whether such further assessment is appropriate.

The report is based upon the information contained in subsequent dataset sections. Some datasets have been generated by and are unique to GroundSure, whist others are provided by recognised bodies including the Environment Agency, British Geological Survey, Health Protection Agency, Local Authorities, etc. GroundSure may also have been provided with further details regarding the site by the client and / or his advisers. In the absence of such, GroundSure has made a best estimation regarding current and proposed land use. This report and the risk assessment presented is based purely upon this information.

In undertaking this report GroundSure has not, unless explicitly stated to the contrary, undertaken a site inspection, site investigation, consulted directly with the local authority with specific regard to the subject property or reviewed existing environmental reports. Whilst every effort is made to consider likely environmental liabilities on the basis of the information assessed, certain issues may only be readily discernible from physical site inspection and / or investigation.

Source - Pathway - Receptor Definitions

Sources of contamination include:

- Historic on-site and historic off-site sources
- Current on-site and current off-site sources

Pathways comprise:

- Mechanisms facilitating "receptor" exposure to contaminative "sources"

Receptors include:

- Human health i.e. site users, adjacent site users
- Controlled Waters i.e. groundwater, surface water
- Habitats and biodiversity
- Property, buildings and infrastructure

Risk Assessment Definitions

Acceptable Environmental Risk: Significant potential environmental liabilities have not been identified

In Need of Further Assessment: Significant potential environmental liabilities have been identified

Is there a risk of statutory (e.g. Part IIA EPA 1990) or third party action being taken against the site?

This response considers the risk of legal liability arising through ownership or occupation and use of the property through statutory or other third party claims.

Does the property represent Acceptable Banking Security from an environmental risk perspective?

Consideration is given to the suitability of the property as robust financial security for the purposes of secured lending facilities. An assumption is made here that the subject property is being considered in isolation and that normal commercial lending loan to value ratios are being considered.

GroundSure may in certain circumstances be able to make a specific lender liability assessment based on a full view of financial arrangements and hence the commercial context of the environmental risks.

Is there a risk that the property value may be impacted due to environmental liability issues?

This response sets out to advise whether environmental liabilities are likely to materially impact upon a standard Royal Institution of Chartered Surveyors valuation of the property necessitating further assessment.

What is the potential for environmental risk associated with property ownership i.e. that a prudent purchaser may wish to consider further?

Low: There are unlikely to be significant environmental liabilities associated with the property

Low-Moderate: There are unlikely to be significant environmental liabilities associated with the property with regard to the proposed use. However, minor issues may require further consideration and further assessment may be appropriate under certain circumstances e.g. redevelopment

Moderate: Some potential environmental liabilities are likely to reside with the property as a result of historical and / or current use. Whilst unlikely to represent an immediate significant issue, if left unchecked this position may change with time. A prudent purchaser may wish to make further enquiries of the vendor / undertake limited further due diligence / seek environmental improvements. Redevelopment of the site will likely require further, more detailed assessment.

Moderate-High: Some potential significant environmental liability issues have been identified at the property requiring further assessment. Should further information be available it may be possible to re-assess the risk. In the absence of sufficient further information, further assessment might comprise consultation with the environmental regulators / review of existing environmental reports / commissioning new environmental reports / consideration of environmental insurance.

High: Significant potential environmental liabilities have been identified at the property. Further detailed environmental due diligence will likely be required and may include review of existing environmental reports / commissioning new environmental reports including site investigations / consideration of environmental insurance / transaction restructuring.

1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from High Detail (1:10,000 scale) Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 250m of the search centre: 26

The following records are not represented on Mapping:

Distance (m)	Direction	Use	Date
33.0	N	Railway Sidings	1951
35.0	N	Opencast Workings	1973
35.0	N	Open Workings	1966
40.0	W	Colliery	1951
45.0	W	Colliery	1948
48.0	W	Colliery	1904
57.0	W	Colliery	1929
57.0	W	Refuse Heap	1929
61.0	W	Refuse Heap	1951
65.0	W	Refuse Heap	1948
72.0	W	Refuse Heap	1966
72.0	W	Unspecified Disused Tip	1973
72.0	W	Unspecified Disused Tip	1982
72.0	W	Refuse Heap	1904
90.0	W	Unspecified Old Shafts	1951
92.0	W	Unspecified Old Shafts	1948
105.0	W	Unspecified Old Shafts	1951
107.0	W	Unspecified Old Shafts	1948
123.0	W	Refuse Heap	1929
126.0	W	Unspecified Mine	1973
127.0	W	Unspecified Mine	1966
128.0	W	Unspecified Mine	1982
194.0	E	Bleach Works	1890
212.0	SE	Unspecified Heap	1973
212.0	SE	Unspecified Heap	1966
224.0	E	Bleach Works	1904

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 100m of the search centre: 4

The following records are not represented on Mapping:

Distance (m)	Direction	Use	Date
54.0	W	Tank (Unspecified)	1986
54.0	W	Tank (Unspecified)	1987
54.0	W	Tank (Unspecified)	1989
54.0	W	Tank (Unspecified)	1984

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 100m of the search centre: 2

The following records are not represented on Mapping:

Distance (m)	Direction	Use	Date
74.0	W	Electricity Sub Station	1998
76.0	W	Electricity Sub Station	1991

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 100m of the search centre: 0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 100m of the search centre: 4

The following records are not represented on Mapping:

Distance (m)	Direction	Use	Date
0.0	On Site	Garage	1959
0.0	On Site	Garage	1959
10.0	W	Garage	1976
25.0	W	Garage	1959

1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 100m of the study site: 24

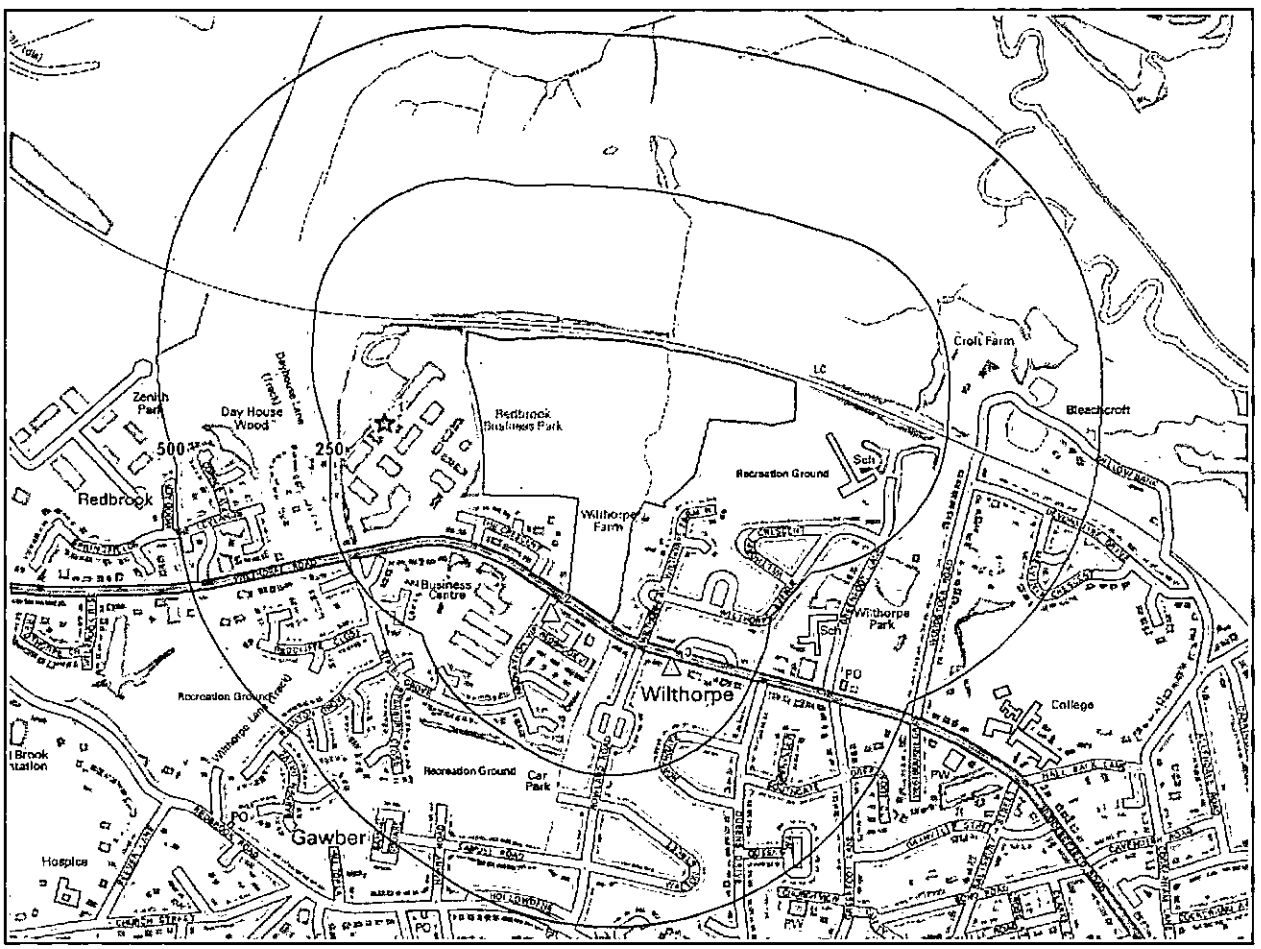
The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by GroundSure:

Distance [m]	Direction	Use	Date
0.0	On Site	Cuttings	1890
0.0	On Site	Cuttings	1904
0.0	On Site	Cuttings	1948
4.0	N	Cuttings	1973
4.0	N	Cuttings	1966
4.0	N	Cuttings	1951
5.0	N	Cuttings	1973
5.0	N	Cuttings	1966
5.0	N	Cuttings	1951
9.0	N	Cuttings	1993

9.0	N	Cuttings	1982
35.0	N	Opencast Workings	1973
35.0	N	Open Workings	1966
40.0	W	Colliery	1951
45.0	W	Colliery	1948
48.0	W	Colliery	1904
61.0	W	Refuse Heap	1951
65.0	W	Refuse Heap	1948
72.0	W	Unspecified Disused Tip	1982
72.0	W	Unspecified Disused Tip	1973
72.0	W	Refuse Heap	1966
72.0	W	Refuse Heap	1904
90.0	W	Unspecified Old Shafts	1951
92.0	W	Unspecified Old Shafts	1948

2. Environmental Permits, Incidents and Registers Map

NW N NE



W E

SW S SE

Authorisations,Incidents and Registers Legend

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- Site Outline
- Search Buffers (m) 250 500
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

Records of historic IPC Authorisations within 500m of the study site: **0**

Database searched and no data found.

Records of Part A(1) and IPPC Authorised Activities within 500m of the study site: **0**

Database searched and no data found.

Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site: **0**

Database searched and no data found.

Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site: **0**

Database searched and no data found.

Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site: **0**

Database searched and no data found.

Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site: **0**

Database searched and no data found.

Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site: **2**

The following Part A(2) and Part B Activities are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance [m]	Direction	NGR	Details	
2	45.0	SW	433080, 407717	Address: Motosave 161 Wilthorpe Rd, Barnsley, S75 1JQ Process: Waste Oil Burning Process Status: Historical Permit	Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified

3	122.0	SE	433276, 407629	Address: Wilthorpe Dry Cleaners, 166 Huddersfield Road, Barnsley,S75 1HA Process: Dry Cleaners Status: Current Permit	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified

Records of Category 3 or 4 Radioactive Substance Licences within 500m of the study site: **0**

Database searched and no data found.

Records of Licensed Discharge Consents within 500m of the study site: **0**

Database searched and no data found.

Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site: **0**

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: **0**

Database searched and no data found.

2.3 Environment Agency Recorded Pollution Incidents

Records of National Incidents Recording System, List 2 within 250m of the study site: **1**

The following NIRS List 2 records are represented as points on the Authorisations, Incidents and Registers Map:

ID	Distance [m]	Direction	NGR	Details	
1	156.0	W	432806, 408032	Incident Date: 20/10/2008 Incident Identification: 629854 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

Records of National Incidents Recording System, List 1 within 250m of the study site: **0**

Database searched and no data found.

2.4 Sites Determined as Contaminated Land under Part IIA EPA 1990[1]

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site? **0**

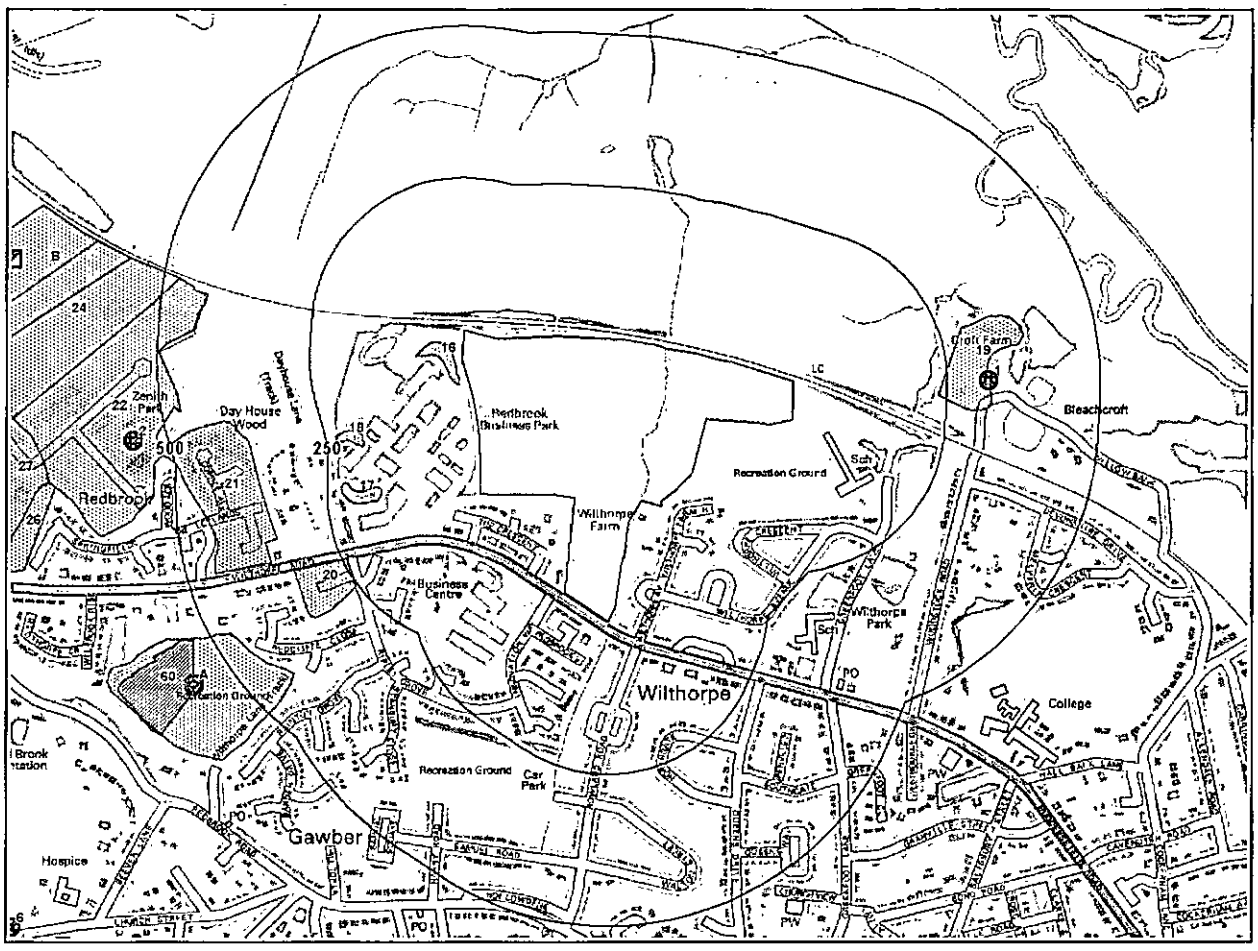
Database searched and no data found.

3. Landfill and Other Waste Sites Map

NW N NE

W E

SW S SE



Landfill & Other Waste Sites Legend

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- Site Outline
- Search Buffers (m) — 250 — 500
- E.A. Active Landfill
- E.A. Historic Landfill (Area Data)
- E.A. Historic Landfill (Point Data)
- BGS / DoE Survey Landfill
- Local Authority Landfill (Area Data)
- Local Authority Landfill (Point Data)
- Operational Waste Treatment Licence
- Closed Waste Treatment Licence
- REGIS Waste Licence
- Operational Landfill
- Closed Landfill

3. Landfill and Other Waste Sites

3.1 Landfill Sites

Records from Environment Agency landfill data within 1000m of the study site: **0**

Database searched and no data found.

Records of operational landfill sites sourced from Landmark within 1000m of the study site: **0**

Database searched and no data found.

Records of Environment Agency historic landfill sites within 1500m of the study site: **35**

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details	
16	12.0	W	432900, 408100	Site Address: Redbrook Business Park, Wilthorpe Road, Redbrook Waste Licence: - Site Reference: 4400/(160) Waste Type: - Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Tineslave Limited
17	161.0	W	432700, 407900	Site Address: Redbrook Business Park, Gawber Waste Licence: Yes Site Reference: 41B58(165), 4400/B1050 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: 31 Bence Lane, Darton, Barnsley Operator: -
18	190.0	W	432700, 408000	Site Address: Redbrook Business Park, Gawber Waste Licence: - Site Reference: 4400/B1050 Waste Type: - Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: -
19	237.0	E	433700, 408100	Site Address: Croft Farm, Willow Bank, Barnsley Waste Licence: Yes Site Reference: WD20 B742 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 10/07/1990 Licence Surrendered: 31/12/1993 Licence Hold Address: Croft Farm, Willow Bank, Barnsley Operator: Mr K Hadfield
20	243.0	SW	432700, 407700	Site Address: Gawber Refuse Tip, Withorpe Lane, Gawber, Barnsley, South Yorkshire Waste Licence: - Site Reference: - Waste Type: Commercial, Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Darton Urban District Council
21	341.0	W	432500, 407900	Site Address: Dayhouse Lane And Wilthorpe Road, Gawber, Barnsley Waste Licence: - Site Reference: 4400/(135) Waste Type: - Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Mr B Dixon
22	423.0	W	432300, 408000	Site Address: Land To East Of Whaley Road, Barugh Green, Barnsley Waste Licence: Yes Site Reference: WD20 B1050 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 15/03/1994 Licence Surrendered: - Licence Hold Address: 31 Bence Lane, Darton Operator: Mydrin Limited
23A	424.0	SW	432500, 407500	Site Address: Redbrook Road, Gawber, Barnsley Waste Licence: - Site Reference: 4400/(4) Waste Type: Commercial, Household, Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Darton Urban District Council

24	474.0	W	432200, 408100	Site Address: Whaley Road, Claycliffe Industrial Estate, Barugh Green road, Barugh, Barnsley Waste Licence: Yes Site Reference: 4400/B502, 20B502 (81), WD20 B502 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 24/03/1986 Licence Surrendered: 22/07/1992 Licence Hold Address: PO Box 1, Whaley Road, Barugh, Barnsley Operator: Amco Limited
25B	559.0	W	432200, 408200	Site Address: Tipping of Builders Waste opposite Whaley Road, Whaley Road, Barugh, Barnsley Waste Licence: Yes Site Reference: WD24 B378, 4400/B375, 20B375(84), WD20 B375 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 14/04/1983 Licence Surrendered: 02/07/1984 Licence Hold Address: Amco Compound, Whaley Road, Barugh, Barnsley Operator: Longden Homes
26	696.0	W	432200, 407800	Site Address: Wilthorpe Road, Redbrook, Barnsley Waste Licence: Yes Site Reference: WD20 B390, 4400/B390, 20B390(86) Waste Type: Inert, Regis Reference: -	Licence Issue: 02/09/1983 Licence Surrendered: 03/05/1988 Licence Hold Address: High Street, South Elmsall, Pontefract Operator: Tara Civil Engineering Limited
27	704.0	W	432100, 407900	Site Address: South Yorkshire Industrial Estate, Redbrook, Barnsley Waste Licence: Yes Site Reference: 4400/B392, 20B392 (87), WD20 B392 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 02/09/1983 Licence Surrendered: 29/01/1990 Licence Hold Address: Western House, Place Du Commerce, St Peter Port, Guernsey Operator: Northern Properties Limited
Not shown	997.0	W	431900, 408500	Site Address: Land off Whaley Road, Claycliffe Industrial Estate, Barugh Green, Barnsley Waste Licence: Yes Site Reference: WD20 B488, 4400/B488, 20B488(97) Waste Type: Inert, Regis Reference: -	Licence Issue: 21/10/1985 Licence Surrendered: 01/11/1994 Licence Hold Address: 3 The Balk, Staincross, Barnsley Operator: Mr C Langfield
Not shown	1005.0	S	433100, 406600	Site Address: Allotment Gardens, Pogmoor Waste Licence: - Site Reference: 4400/B197 Waste Type: - Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: -
Not shown	1080.0	E	434600, 408100	Site Address: Smithies Tip, Smithies Tip, Off Smithies Lane, Barnsley Waste Licence: - Site Reference: 4400/(141) Waste Type: - Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: -
Not shown	1164.0	S	433100, 406400	Site Address: West Road, Pogmoor, Barnsley Waste Licence: Yes Site Reference: WD2 B19, 20B572 (57), WD20 B572, 4400/B572, 4400/0459 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 15/07/1987 Licence Surrendered: 31/12/1990 Licence Hold Address: Public Services Department, Central Offices, Kendray Street, Barnsley or West Carr Road, Retfo Operator: Barnsley Metropolitan Borough Council
Not shown	1178.0	S	433200, 406400	Site Address: Land West of Summer Lane Dairy, Stocks Lane, Barnsley, South Yorkshire Waste Licence: Yes Site Reference: 20B38(61), 4400/B19, 4400/B38, WD20 B38 Waste Type: Inert, Industrial, Commercial, Regis Reference: -	Licence Issue: 18/11/1982 Licence Surrendered: 03/06/1988 Licence Hold Address: Wellington Street, Barnsley Operator: Co-op Retail Services
Not shown	1205.0	NW	432300, 409200	Site Address: Quarry, Junction of Spark Lane and Swallow Hill Road, Mapplewell, Barnsley Waste Licence: Yes Site Reference: WD20 B176 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 11/01/1978 Licence Surrendered: 11/01/1985 Licence Hold Address: Barnsley Area, Grimethorpe, Barnsley Operator: National Coal Board
Not shown	1237.0	W	431600, 408500	Site Address: Railway Cutting Off Claycliffe Road, Barugh, Barnsley Waste Licence: - Site Reference: - Waste Type: Inert, Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Mr Robinson

Not shown	1245.0	S	432800, 406400	Site Address: Recreation Ground, Pogmoor Road, Barnsley Waste Licence: - Site Reference: 4400/(134) Waste Type: - Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: -
Not shown	1253.0	N	433500, 409400	Site Address: Blacker Hill Quarry, Wentworth Road, Mapplewell, Barnsley Waste Licence: Yes Site Reference: WD20 B278 Waste Type: Inert, Industrial, Commercial, Regis Reference: -	Licence Issue: 01/04/1980 Licence Surrendered: 06/07/1984 Licence Hold Address: 114 Wentworth Road, Mapplewell, Barnsley Operator: Mr R Smith
Not shown	1255.0	E	434800, 407800	Site Address: Smithy Green Tip, Smithies Lane, Barnsley, Yorkshire Waste Licence: - Site Reference: - Waste Type: Industrial, Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Barnsley County Borough Council
Not shown	1273.0	S	433000, 406400	Site Address: Land North of Dodworth Road, Pogmoor Waste Licence: - Site Reference: 4400/(139) Waste Type: - Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Polar Motors
Not shown	1283.0	W	431600, 408000	Site Address: Cannon Way, Barugh Green Road, Barugh Waste Licence: Yes Site Reference: 4400/B45 Waste Type: Inert, Regis Reference: -	Licence Issue: 16/03/1995 Licence Surrendered: - Licence Hold Address: - Operator: -
Not shown	1305.0	E	434800, 407500	Site Address: Star Paper Limited, Old Mill Lane, Barnsley Waste Licence: Yes Site Reference: WD20 B4(i), 4400/B4 Waste Type: Inert, Liquid sludge, Regis Reference: -	Licence Issue: 11/01/1978 Licence Surrendered: 25/02/1982 Licence Hold Address: - Operator: Star Paper Limited
Not shown	1309.0	SE	434400, 407000	Site Address: Land off Old Mill Lane, Town Centre, Barnsley Waste Licence: Yes Site Reference: WD20 B446 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 14/11/1984 Licence Surrendered: 30/03/1994 Licence Hold Address: c/o Twibell Plant Limited, Twibell Street, Barnsley Operator: Mr M White
Not shown	1350.0	E	434800, 408400	Site Address: Land adjacent to Wakefield Road, Barnsley Waste Licence: - Site Reference: - Waste Type: - Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Prospect Estates Limited
Not shown	1353.0	S	432700, 406300	Site Address: Quarry at Higher Spring Head Farm, Oakworth, Keighley Waste Licence: Yes Site Reference: 671, 4400/(130) Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 21/08/1988 Licence Surrendered: - Licence Hold Address: 30 Exley Head, Keighley Operator: -
Not shown	1371.0	E	434900, 408300	Site Address: Dalestone Works, Wakefield Road, Barnsley Waste Licence: - Site Reference: 4400/(142) Waste Type: - Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: -
Not shown	1430.0	E	434900, 407900	Site Address: Wakefield Road, Barnsley Waste Licence: Yes Site Reference: 20B320(79), WD20 B320, 4400/B320 Waste Type: Industrial, Commercial, Regis Reference: -	Licence Issue: 28/07/1981 Licence Surrendered: 09/05/1988 Licence Hold Address: c/c C E Smith and Son, 14 Regent Street, Barnsley Operator: Booth Excavations Limited
Not shown	1446.0	SE	434800, 407300	Site Address: Star Paper Mill, Barnsley Waste Licence: - Site Reference: 4400/B59, WD20/B4 (ii) Waste Type: Inert, Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Star Paper Mill

Not shown	1465.0	NW	431800, 409300	Site Address: Between Darton Lane and Dearne Hall Road, Darton, Barnsley Waste Licence: Yes Site Reference: WD20 B490, 4400/B490, 20B490(98) Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 21/10/1985 Licence Surrendered: 01/11/1994 Licence Hold Address: Oaks Farm, Darton Lane, Darton, Barnsley Operator: C Birkinshaw and Sons Limited
Not shown	1483.0	W	431400, 408100	Site Address: Metro Trading Centre, Off Barugh Green Road, Baraugh Green, Barnsley Waste Licence: Yes Site Reference: WD20 B559, 4400/B559, 20B559(51) Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 23/07/1987 Licence Surrendered: 06/02/1992 Licence Hold Address: Redbrooke Road, Barnsley Operator: R and J Masters
Not shown	1492.0	E	434900, 407500	Site Address: The Fleets Dam, Off Smithies Lane, Barnsley Waste Licence: Yes Site Reference: WD20 B774, 4400/B774, 20B774 Waste Type: Inert, Commercial, Regis Reference: -	Licence Issue: 05/09/1990 Licence Surrendered: - Licence Hold Address: Stainborough Fisheries, The Wickets, Low Lane, Stainborough, Barnsley Operator: -
Not shown	1499.0	SE	434800, 407100	Site Address: Disused Canal, Old Mill Lane, Barnsley Waste Licence: - Site Reference: 4400/(22) Waste Type: Inert, Regis Reference: -	Licence Issue: - Licence Surrendered: - Licence Hold Address: - Operator: Barnsley Metropolitan Borough Council

Records of non-operational landfill sites sourced from Landmark within 1000m of the study site: 5

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details	
1	318.0	E	433800, 408100	Site Address: Croft Farm, Willow Bank, BARNSLEY, South Yorkshire Landfill Licence: 37ABBAAL Agency Reference: Waste Type: Inert Waste Description: Inert Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Aug-1990 Transfer Date: Modification Date: 01-Feb-1991 Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - North East Region - Ridings Area (Rotherham) Size: Large (< 250,000 tonnes/year)
2	555.0	W	432400, 408000	Site Address: Whaley Road (East Of), Barugh Green, BARNSLEY, South Yorkshire, S75 1JF Landfill Licence: 37ABFBAL Agency Reference: Waste Type: Inert Waste Description: Inert Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Mar-1994 Transfer Date: Modification Date: 01-Feb-1996 Status: Licence has completion certificate Category: LANDFILL Regulator: EA - North East Region - Ridings Area (Rotherham) Size: Large (< 250,000 tonnes/year)
Not shown	869.0	W	432100, 407900	Site Address: South Yorkshire Industrial Estate, Redbrook, BARNSLEY, South Yorkshire, Landfill Licence: 37AAMPAL Agency Reference: Waste Type: Inert Waste Description: Inert Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Sep-1983 Transfer Date: Modification Date: 01-Nov-1985 Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - North East Region - Ridings Area (Rotherham) Size: Large (< 250,000 tonnes/year)
Not shown	963.0	W	431983, 408269	Site Address: Whaley Road, Barugh, BARNSLEY, South Yorkshire, Landfill Licence: 37AAMCAL Agency Reference: Waste Type: Inert Waste Description: Inert Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Apr-1983 Transfer Date: Modification Date: 01-Jul-1983 Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - North East Region - Ridings Area (Rotherham) Size: Medium (< 75,000 tonnes/year)

Not shown	994.0	W	432000, 408500	Site Address: Claycliffe Road Industrial Estate, Barugh Green, BARNSLEY, South Yorkshire, Landfill Licence: 37AASRAL Agency Reference: Waste Type: Difficult Waste Description: Difficult Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Oct-1985 Transfer Date: Modification Date: 01-Sep-1993 Status: Licence revoked Category: LANDFILL Regulator: EA - North East Region - Ridings Area (Rotherham) Size: Large (< 250,000 tonnes/year)

Records of BGS/DoE non-operational landfill sites within 1500m of the study site: **2**

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details	
14A	564.0	SW	432500, 407600	Address: Gawber Refuse Tip, Withorpe Ln, Gawber, Barnsley BGS Number: 1400.0	Risk: No risk to aquifer Waste Type: N/A
Not shown	1235.0	E	434700, 408300	Address: Smithy Green Tip, Smithies Lane, Barnsley, Yorks BGS Number: 1890.0	Risk: No risk to aquifer Waste Type: N/A

Records of Local Authority landfill sites within 1500m of the study site: **7**

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	Site Address	Source	Data Type
60	528.0	SW	Refuse Tip	1975 mapping	Polygon
Not shown	1034.0	W	Refuse Tip	1970 mapping	Polygon
Not shown	1046.0	W	Refuse Tip	1970 mapping	Polygon
Not shown	1069.0	E	Refuse Tip	1970 mapping	Polygon
Not shown	1251.0	E	Refuse Tip	1970 mapping	Polygon
Not shown	1400.0	E	Refuse Tip	1970 mapping	Polygon
Not shown	1492.0	S	Refuse Tip	1969 mapping	Polygon

3.2 Other Waste Sites

Records of operational waste treatment, transfer or disposal sites within 500m of the study site: **0**

Database searched and no data found.

Records of non-operational waste treatment, transfer or disposal sites within 500m of the study site: **0**

Database searched and no data found.

Records of Environment Agency licensed waste sites within 1500m of the study site: **9**

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	NGR	Details

51B	751.0	W	432200, 408300	Site Address: Wordsworth Crushing Ltd, Whaley Road, Low Barugh, Barnsley, South Yorkshire, S75 1HT Type: Inert & excavation Waste TS + treatment Size: < 25000 tonnes Regis Licence Number: WOR047 Operator: Wordsworth Crushing Ltd Surrendered Date: - Waste Management licence No: 104091 Annual Tonnage: 74999.0	Issue Date: 22/05/2012 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Whaley Road Cancelled Date: - Correspondence Address: -, -
Not shown	1172.0	S	433077, 406535	Site Address: Haulage Yard, Off West Road, Pogmoor, Barnsley, South Yorkshire, S75 2DH Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Regis Licence Number: LYC001 Operator: Lycett D Surrendered Date: - Waste Management licence No: 60564 Annual Tonnage: 25000.0	Issue Date: 13/04/1987 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Andrich Skip Hire Cancelled Date: - Correspondence Address: -, -
Not shown	1255.0	S	433100, 406450	Site Address: Haulage Yard, Off West Road, Pogmoor, Barnsley, S Yorks, S75 2DH Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Regis Licence Number: LYC001 Operator: Lycett Dennis Surrendered Date: - Waste Management licence No: 60564 Annual Tonnage: 0.0	Issue Date: 13/04/1987 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Andrich Skip Hire Cancelled Date: - Correspondence Address: -, 2, Intake Gardens, Barnsley Road, Barnsley, S Yorks, S75 2DP
Not shown	1347.0	N	433400, 409500	Site Address: Land/premises At, Wentworth Road, Mapplewell, Barnsley, South Yorkshire, S75 6BS Type: Metal Recycling Site (Vehicle Dismantler) Size: < 25000 tonnes Regis Licence Number: MAP001 Operator: Mapplewell Auto Salvage Surrendered Date: - Waste Management licence No: 60555 Annual Tonnage: 5000.0	Issue Date: 22/11/1996 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Mapplewell Auto Salvage Cancelled Date: - Correspondence Address: -, -
Not shown	1347.0	N	433400, 409500	Site Address: Wentworth Road, Mapplewell, Barnsley, S Yorks, S75 6BS Type: Metal Recycling Site (Vehicle Dismantler) Size: < 25000 tonnes Regis Licence Number: MAP001 Operator: Mapplewell Autosalvage Surrendered Date: - Waste Management licence No: 60555 Annual Tonnage: 0.0	Issue Date: 22/11/1996 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Mapplewell Auto Salvage Cancelled Date: - Correspondence Address: -, Wentworth Road, Mapplewell, Barnsley, S Yorks, S75 6BS
Not shown	1388.0	E	434870, 408090	Site Address: Smithies Lane, Smithies, Barnsley, S Yorks Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Regis Licence Number: REG006 Operator: Regional Waste Recycling Plc Surrendered Date: - Waste Management licence No: 60609 Annual Tonnage: 5000.0	Issue Date: 14/06/1993 Expiry Date: - Effective Date: 08/12/2006 Status: Transferred Modified: - Site Name: Smithies Lane Civic Amenity Site Cancelled Date: - Correspondence Address: -, 2 Cecil Court, 49-55, London Road, Enfield, Middlesex, EN2 6DE
Not shown	1388.0	E	434870, 408090	Site Address: Smithies Lane Civic Amenity Site, Smithies Lane, Smithies, Barnsley, South Yorkshire, S71 1NL Type: Household Waste Amenity Site Size: < 25000 tonnes Regis Licence Number: WAS067 Operator: Waste Recycling Ltd Surrendered Date: - Waste Management licence No: 60609 Annual Tonnage: 24999.0	Issue Date: 14/06/1993 Expiry Date: - Effective Date: 26/01/2009 Status: Transferred Modified: - Site Name: Smithies Lane H W R C Site Cancelled Date: - Correspondence Address: -, -

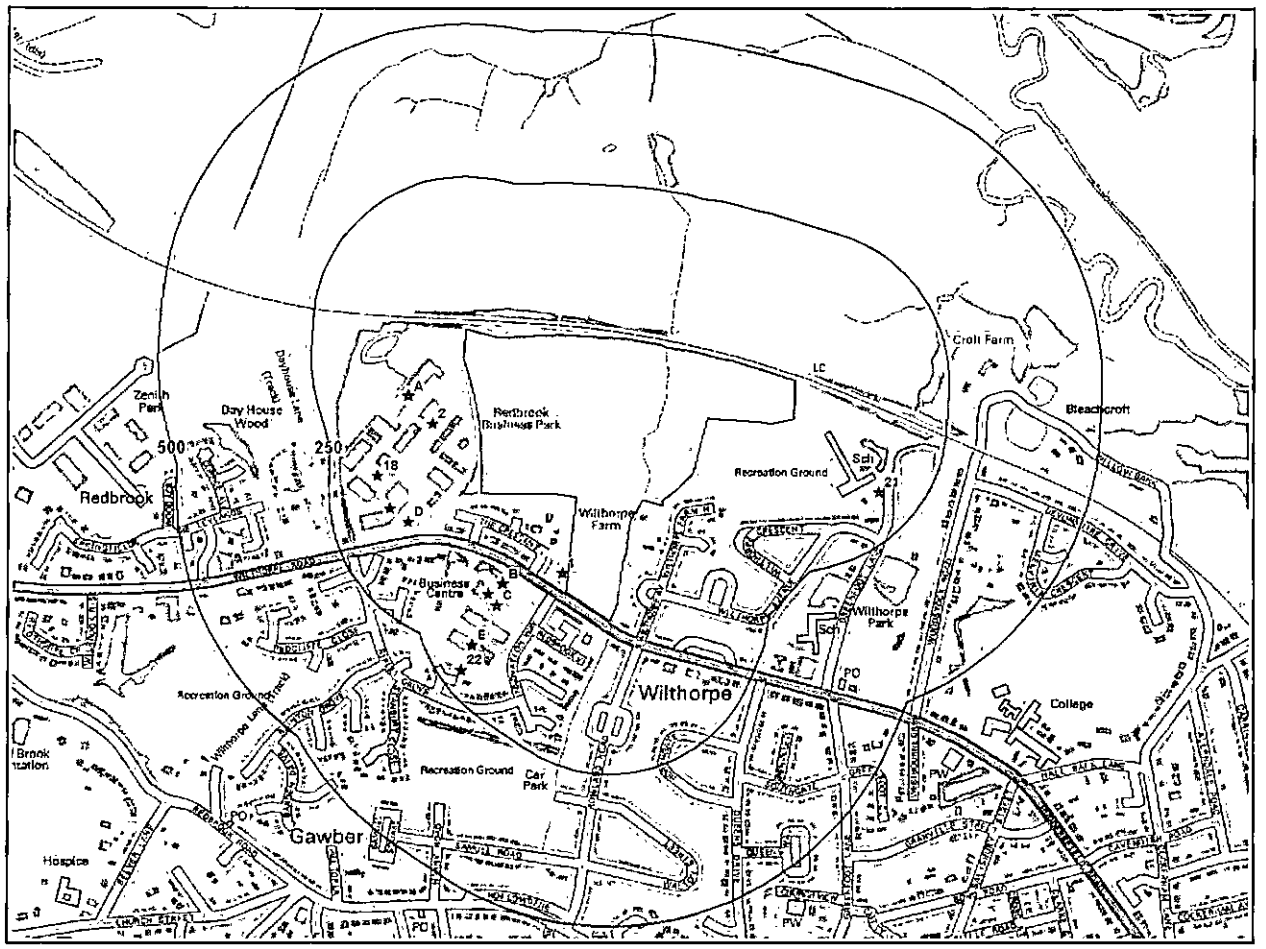
Not shown	1388.0	E	434870, 408090	Site Address: Smithies Lane, Smithies, Barnsley, S Yorks Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Regis Licence Number: BDR013 Operator: South Herts Waste Management Ltd Surrendered Date: - Waste Management licence No: 60609 Annual Tonnage: 0.0	Issue Date: 14/06/1993 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Smithies Lane Civic Amenity Site Cancelled Date: - Correspondence Address: -, 48, Cardigan Road, Stanion, Northants, NN14 1BY
Not shown	1388.0	E	434870, 408090	Site Address: Smithies Lane Civic Amenity Site, Smithies Lane, Smithies, Barnsley, South Yorkshire, S71 1NL Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Regis Licence Number: WAS067 Operator: Waste Recycling Ltd Surrendered Date: - Waste Management licence No: 60609 Annual Tonnage: 24999.0	Issue Date: 14/06/1993 Expiry Date: - Effective Date: 26/01/2009 Status: Transferred Modified: - Site Name: Smithies Lane H W R C Site Cancelled Date: - Correspondence Address: -, Ground Floor West, 900, Pavilion Drive, Northampton Business Park, Northampton, NN4 7RG

4. Current Land Use Map

NW N NE

W E

SW S SE



Current Land Use Legend

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Site Outline

250 / 500 Search Buffers (m)

Current Industrial Sites

Petrol & Fuel Sites

Underground High Pressure Oil & Fuel Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: **22**

The following records are represented as points on the Current Land Uses map:

ID	Distance [m]	Direction	Company	Address	Activity	Category
1	11.0	W	Motosave Ltd	161, Wilthorpe Road, Barnsley, S75 1JQ	Vehicle Repair, Testing and Servicing	Repair and Servicing
2	76.0	W	Electricity Sub Station	S75	Electrical Features	Infrastructure and Facilities
3A	104.0	W	Trist Draper Hydraulics	Unit 6f Redbrook Business Park, Wilthorpe Road, Barnsley, S75 1JN	Industrial Repairs and Servicing	Repair and Servicing
4A	104.0	W	Three Point Four	Unit 6e Redbrook Business Park, Wilthorpe Road, Barnsley, S75 1JN	Vehicle Repair, Testing and Servicing	Repair and Servicing
5A	104.0	W	C B E Conservatory Roofs Ltd	Unit 6g Redbrook Business Park, Wilthorpe Road, Barnsley, S75 1JN	Conservatories	Consumer Products
6A	104.0	W	McCallum Manufacturing Ltd	Unit 6a Redbrook Business Park, Wilthorpe Road, Barnsley, S75 1JN	Cosmetics, Toiletries and Perfumes	Consumer Products
7A	104.0	W	Xtraflex Ltd	Unit 6e Redbrook Business Park, Wilthorpe Road, Barnsley, S75 1JN	Tools Including Machine Shops	Industrial Products
8A	104.0	W	Fiber Glass Systems UK Ltd	Unit 6l Redbrook Business Park, Wilthorpe Road, Barnsley, S75 1JN	Glass Fibre Services	Industrial Products
9B	107.0	W	Barnsley Business & Innovation Centre Ltd	Innovation Way, Barnsley, S75 1JL	Business Parks and Industrial Estates	Industrial Features
10 B	107.0	W	Single Use Surgical Ltd	Barnsley Business & Innovation Centre, Innovation Way, Barnsley, S75 1JL	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
11 B	107.0	W	Bartec Auto I D Ltd	Barnsley Business & Innovation Centre, Innovation Way, Barnsley, S75 1JL	Office and Shop Equipment	Industrial Products
12 B	107.0	W	Expert Ticket	Barnsley Business & Innovation Centre, Innovation Way, Barnsley, S75 1JL	Electronic Equipment	Industrial Products
13 C	117.0	W	H J C Design Ltd	Barnsley Business & Innovation Centre, Innovation Way, Barnsley, S75 1JL	Civil Engineers	Engineering Services
14 C	117.0	W	B J D Crushers Ltd	B B I Centre, Innovation Way, Barnsley, South Yorkshire, S75 1JL	General Purpose Machinery	Industrial Products
15 D	129.0	W	Electricity Sub Station	S75	Electrical Features	Infrastructure and Facilities
16 C	130.0	W	Barnsley Business and Innovation Centre	S75	Business Parks and Industrial Estates	Industrial Features
17 D	152.0	W	Copier Systems Ltd	Unit 1a Redbrook Business Park, Wilthorpe Road, Barnsley, S75 1JN	Office and Shop Equipment	Industrial Products
18	172.0	W	Redbrook Business Park	S75	Business Parks and Industrial Estates	Industrial Features
19E	178.0	SW	Printing.Com	5, Phase 4, Innovation Way, Town Centre, Barnsley, South Yorkshire, S75 1JL	Published Goods	Industrial Products
20E	179.0	SW	Charcon Precast Solutions	Barnsley Business & Innovation Centre, Innovation Way, Barnsley, S75 1JL	Concrete Products	Industrial Products
21	183.0	SE	Electricity Sub Station	S75	Electrical Features	Infrastructure and Facilities
22	216.0	SW	Piglet Printers	43, Ripley Grove, Barnsley, S75 2RX	Published Goods	Industrial Products

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: **0**

Database searched and no data found.

4.3 Underground High Pressure Oil and Gas Pipelines

Records of high pressure underground pipelines within 500m of the study site: **0**

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.
The database has been searched on site, including a 50m buffer.

5.2 Superficial Ground and Drift Geology

Database searched and no data found.
The database has been searched on site, including a 50m buffer.

5.3 Bedrock and Solid Geology

The database has been searched on site, including a 50m buffer.

LEX Code	Description	Rock Type
PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION	SANDSTONE
PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION	SANDSTONE
PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

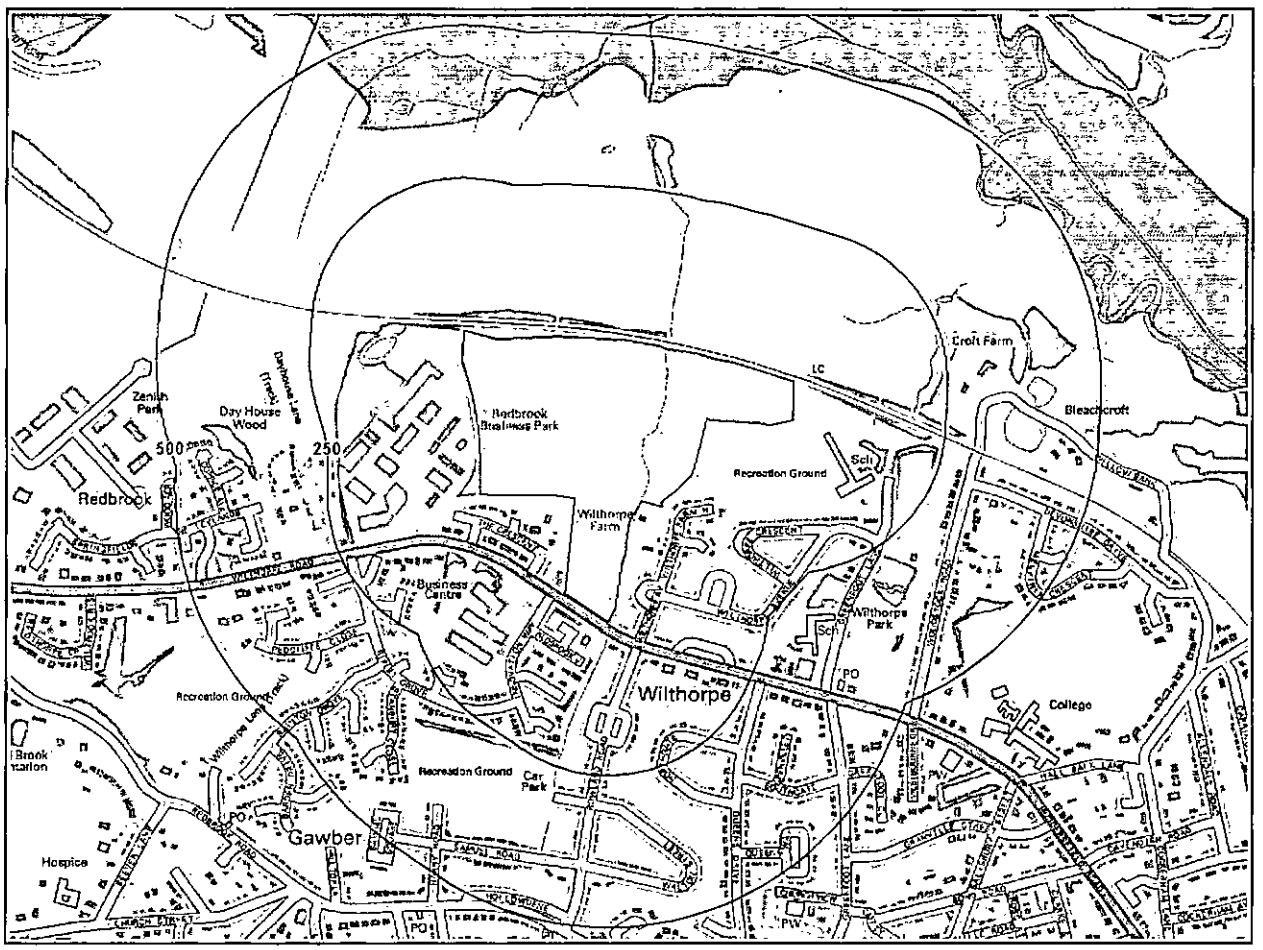
For more detailed geological and ground stability data please refer to the "GroundSure Geology and Ground Stability Report". Available from our website.

6a. Hydrogeology - Aquifer Within Superficial Geology

NW N NE

W E

SW S SE



Aquifer Within Superficial Geology Legend

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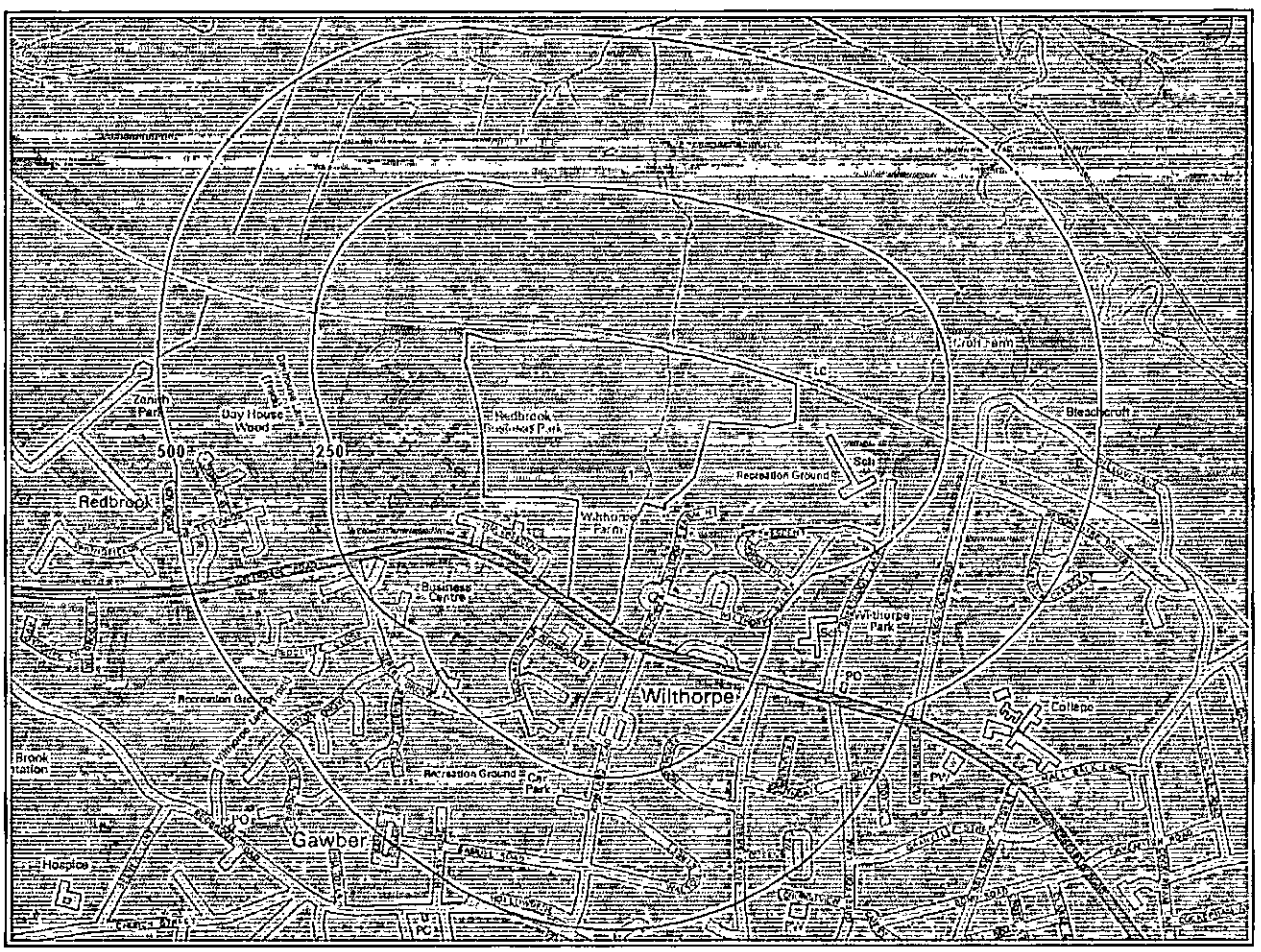
- Site Outline
- 250 / 500 Search Buffers (m)
- Principal Aquifer
- Secondary (A) Aquifer - Permeable Layers
- Secondary (B) Aquifer - Lower Permeability Layers
- Secondary Aquifer - Undifferentiated Layers
- Unproductive
- Unknown (lakes and landslip)

6b. Hydrogeology - Aquifer Within Bedrock Geology and Abstraction Licenses

NW N NE

W E

SW S SE



Aquifer Within Bedrock Geology Legend

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- Site Outline
- 250 / 500 — Search Buffers (m)
- Principal Aquifer
- Secondary (A) Aquifer - Permeable Layers
- Secondary (B) Aquifer - Lower Permeability Layers
- Groundwater Abstraction Licence
- Secondary Aquifer - Undifferentiated Layers
- Unproductive
- Unknown (lakes and landslip)
- Surface Water Abstraction Licence

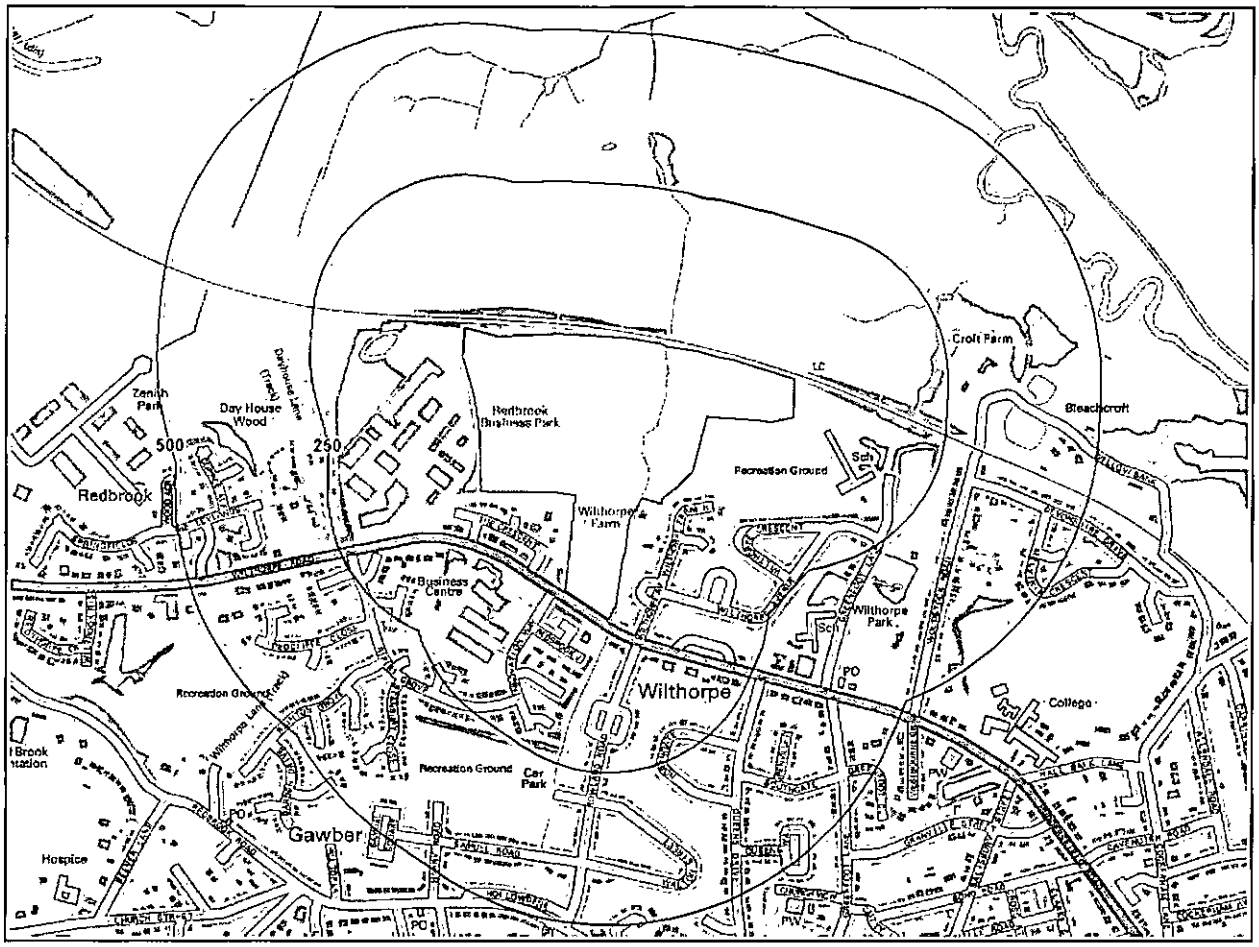
Report Reference: 51000148183001

6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses

NW N NE

W E

SW S SE



SPZ and Potable Water Abstraction Licenses
Legend

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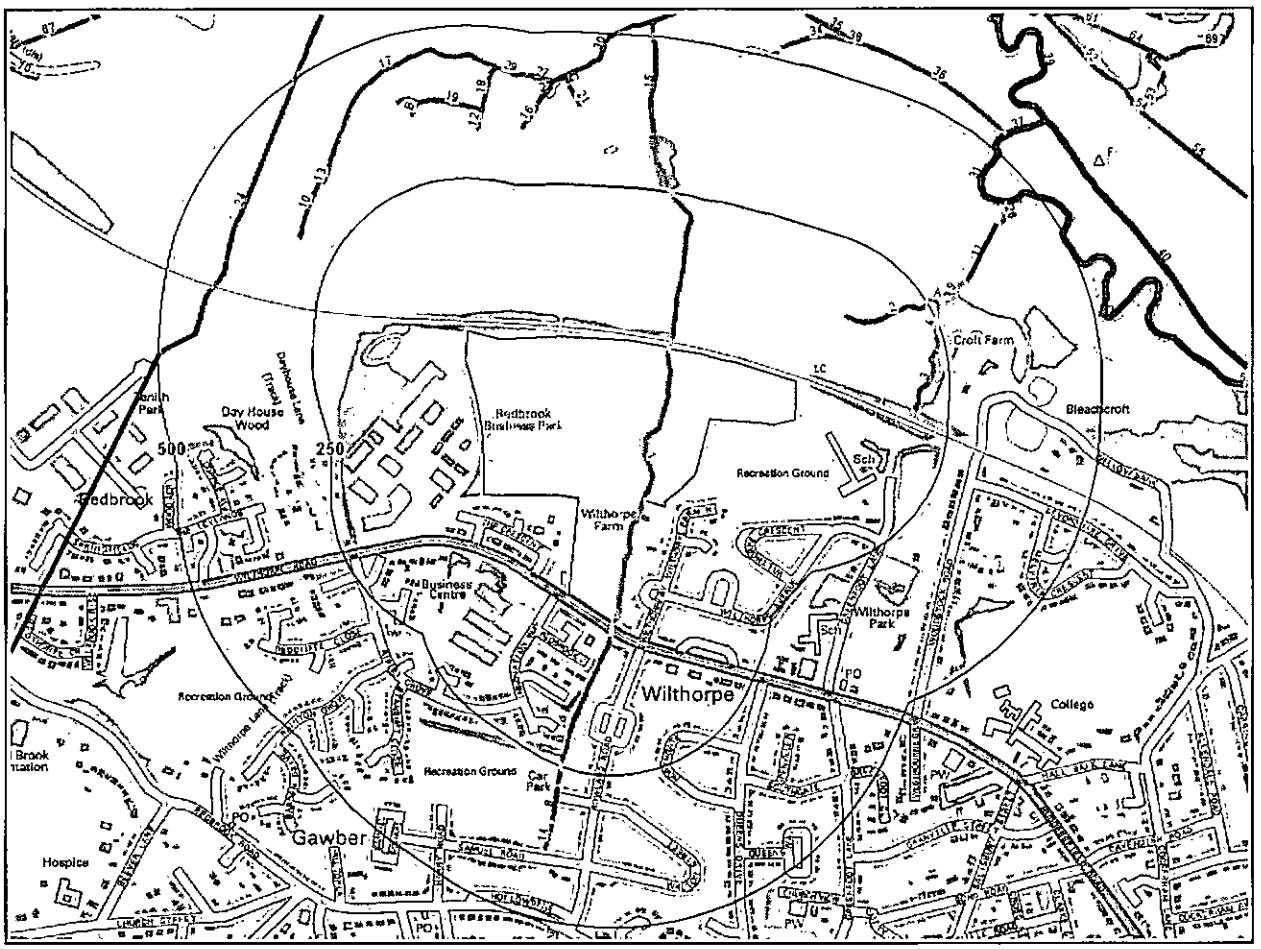
- Site Outline
- 250 / 500 — Search Buffers (m)
- Source Protection Zone 1 - Inner Catchment
- Source Protection Zone 2 - Outer Catchment
- Source Protection Zone 3 - Total Catchment
- Source Protection Zone 4 - Zone of Special Interest
- Potable Waler Abstraction Licence

6d. Hydrology – Detailed River Network and River Quality

NW N NE

W E

SW S SE



Hydrology Legend

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- Site Outline
- 250 / 500 — Search Buffers (m)
- Primary River
- Secondary River
- Tertiary River
- Lake/Reservoir
- Underground River (inferred)
- General Quality Assessment: Chemistry
- Canal
- Canal Tunnel
- Extended Culvert (greater than 50m)
- D/S of High Water Mark
- D/S seaward extension
- General Quality Assessment: Biology

6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Are there records of productive strata within the superficial geology at or in proximity to the property? **Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance [m]	Direction	Designation	Description
1	339.0	N	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

6.2 Aquifer within Bedrock Deposits

Are there records of productive strata within the bedrock geology at or in proximity to the property? **Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance [m]	Direction	Designation	Description
1	0.0	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

6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 1000m of the study site? **No**

Database searched and no data found.

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 1000m of the study site? **No**

Database searched and no data found.

6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? **Yes**

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

ID	Distance	Direction	NGR	Details	
Not shown	1724.0	S	433700, 406060	Licence No: 2/27/08/133 Details: Water Bottling Direct Source: Groundwaters Point: Spring-sandstone/middle Coal Measures-shaw Lane Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 08082 Original Start Date: 1/1/2004 Expiry Date: 31/3/2017 Issue No: 1 Version Start Date: Version End Date:
Not shown	1724.0	S	433700, 406060	Licence No: 2/27/08/133 Details: Water Bottling Direct Source: Groundwaters Point: Spring - Sandstone&middle Coal Measures - Barnsley Data Type: Point	Annual Volume (m³): 350000 Max Daily Volume (m³): 1400 Original Application No: 8082 Original Start Date: 1/1/2004 Expiry Date: 31/3/2017 Issue No: 1 Version Start Date: Version End Date:
Not shown	1781.0	S	433700, 406000	Licence No: 2/27/08/110 Details: Water Bottling Direct Source: Groundwaters Point: Well/spring - Sandstone/middle Coal Measures - Shaw Lane Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 6598 Original Start Date: 23/3/1994 Expiry Date: 31/12/2003 Issue No: 100 Version Start Date: Version End Date:
Not shown	1781.0	S	433700, 406000	Licence No: 2/27/08/110 Details: Water Bottling Direct Source: Groundwaters Point: Spring-sandstone/middle Coal Measures-shaw Lane Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 6598 Original Start Date: 23/3/1994 Expiry Date: 31/12/2003 Issue No: 101 Version Start Date: Version End Date:

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? **No**

Database searched and no data found.

6.7 River Quality

Is there any Environment Agency information on river quality within 1500m of the study site? **Yes**

Biological Quality:

Database searched and no data found.

Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHI). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6d):

ID	Distance [m]	Direction	NGR	River Details	Chemical Quality Grade (Headline Indicator)				
					2005	2006	2007	2008	2009
86F	614.0	NE	433979, 408458	River Name: River Dearne Reach: New Lodge Old Mill End/Start of Stretch: Start of Stretch NGR	D	B	C	C	D
87F	614.0	NE	433979, 408458	River Name: River Dearne Reach: Cawthorne Dyke New Lodge End/Start of Stretch: End of Stretch NGR	B	B	B	B	B
Not shown	1302.0	NW	432021, 409104	River Name: River Dearne Reach: Cawthorne Dyke New Lodge End/Start of Stretch: Sample Point NGR	B	B	B	B	B

6.8 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site? **Yes**

The following Detailed River Network records are represented on the Hydrology Map (6d):

ID	Distance	Direction	Details	
1	0.0	On Site	River Name: -	River Type: Tertiary River
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
2	136.0	NE	River Name: -	River Type: Tertiary River
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
3	196.0	E	River Name: -	River Type: Secondary River
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
4	234.0	E	River Name: -	River Type: Tertiary River
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
5A	266.0	NE	River Name: -	River Type: Tertiary River
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
6A	266.0	NE	River Name: -	River Type: Tertiary River
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
7A	267.0	NE	River Name: -	River Type: Tertiary River
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
8	284.0	S	River Name: -	River Type: Extended Culvert (greater than 50m)
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
9	292.0	NE	River Name: -	River Type: Tertiary River
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
10	312.0	NW	River Name: -	River Type: Tertiary River
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
11	323.0	NE	River Name: -	River Type: Extended Culvert (greater than 50m)
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined

12	328.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
13	337.0	NW	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
14	338.0	S	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
15	341.0	N	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
16	342.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
17	351.0	NW	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: YES Main River Status: Currently Undefined
18	362.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
19	362.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
20B	365.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
21	380.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
22B	382.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
23	384.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
24	407.0	W	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
25C	416.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
26	418.0	NE	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
27	419.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
28C	419.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: NO Main River Status: Currently Undefined
29	427.0	N	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Catchment: - Drain: NO Main River Status: Currently Undefined
30	429.0	N	River Name: Drain Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Catchment: - Drain: YES Main River Status: Currently Undefined
31	434.0	NE	River Name: - Water Course Name: RIVER DEARNE Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined

32	455.0	NE	River Name: - Water Course Name: RIVER DEARNE Welsh River Name: - Alternative Name: -	River Type: Primary River Catchment: - Drain: NO Main River Status: Currently Undefined
33	497.0	W	River Name: - Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Extended Culvert (greater than 50m) Catchment: - Drain: NO Main River Status: Currently Undefined

6.9 Surface Water Features

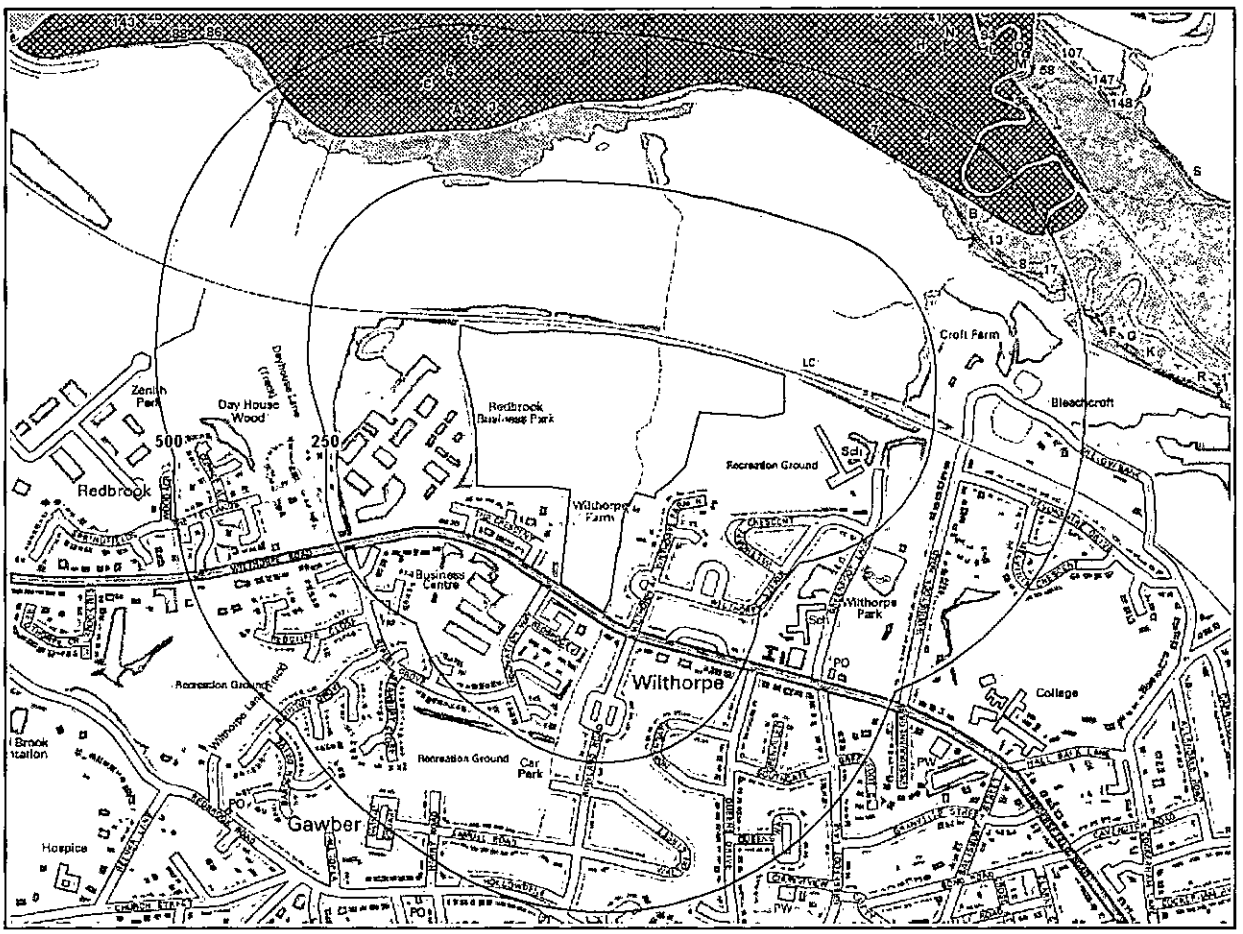
Are there any surface water features within 250m of the study site? **Yes**

The following surface water records are not represented on mapping:

Distance to Surface Water (m)	on-site	0-50	51-250
Surface water features within 250m of the study site	Yes	Yes	Yes

7. River and Tidal Flood Map

NW ▲ N NE



◄W E►

SW ▼ S SE

River and Tidal Flood Legend

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- Site Outline
- 250 / 500 — Search Buffers (m)
- Zone 2 Floodplain
- Zone 3 Floodplain
- Flood Storage Area
- Area Benefiting from Flood Defences
- Flood Defences

7. Flooding

7.1 Zone 2 Flooding

Zone 2 floodplain estimates the annual probability of flooding as one in one thousand (0.1%) or greater from rivers and the sea but less than 1% from rivers or 0.5% from the sea. Alternatively, where information is available they may show the highest known flood level.

Is the site within 250m of an Environment Agency indicative Zone 2 floodplain? **Yes**

Guidance: More detailed information on flooding may be available by ordering a GroundSure Floodview report. Please contact GroundSure for further details.

The following floodplain records are represented as green shading on the Flood Map:

ID	Distance [m]	Direction	Update	Type
1A	232.0	N	04-Jul-2012	Zone 2 - (Undefined Events)

7.2 Zone 3 Flooding

Zone 3 estimates the annual probability of flooding as one in one hundred (1%) or greater from rivers and a one in two hundred (0.5%) or greater from the sea. Alternatively, where information is available they may show the highest known flood level.

Is the site within 250m of an Environment Agency indicative Zone 3 floodplain? **No**

Guidance: More detailed information on flooding may be available by ordering a GroundSure Floodview report. Please contact GroundSure for further details.

Database searched and no data found.

7.3 Flood Defences

Are there any Flood Defences within 250m of the study site ? **No**

7.4 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? **No**

Guidance: More detailed information on flooding may be available by ordering a GroundSure Floodview report. Please contact GroundSure for further details.

7.5 Areas used for Flood Storage

Are there any areas used for Flood Storage within 250m of the study site? **No**

Guidance: More detailed information on flooding may be available by ordering a GroundSure Floodview report. Please contact GroundSure for further details.

7.6 Groundwater Flooding Susceptibility Areas

Are there any British Geological Survey groundwater flooding susceptibility flood areas within 50m of the boundary of the study site?	**Yes**

What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?	**Very Low**

Guidance:
Where very low susceptibility is indicated this means that you need take no further action in relation to groundwater hazard in this area.

7.7 Groundwater Flooding Confidence Areas

What is the British Geological Survey confidence rating in this result?	**Low**

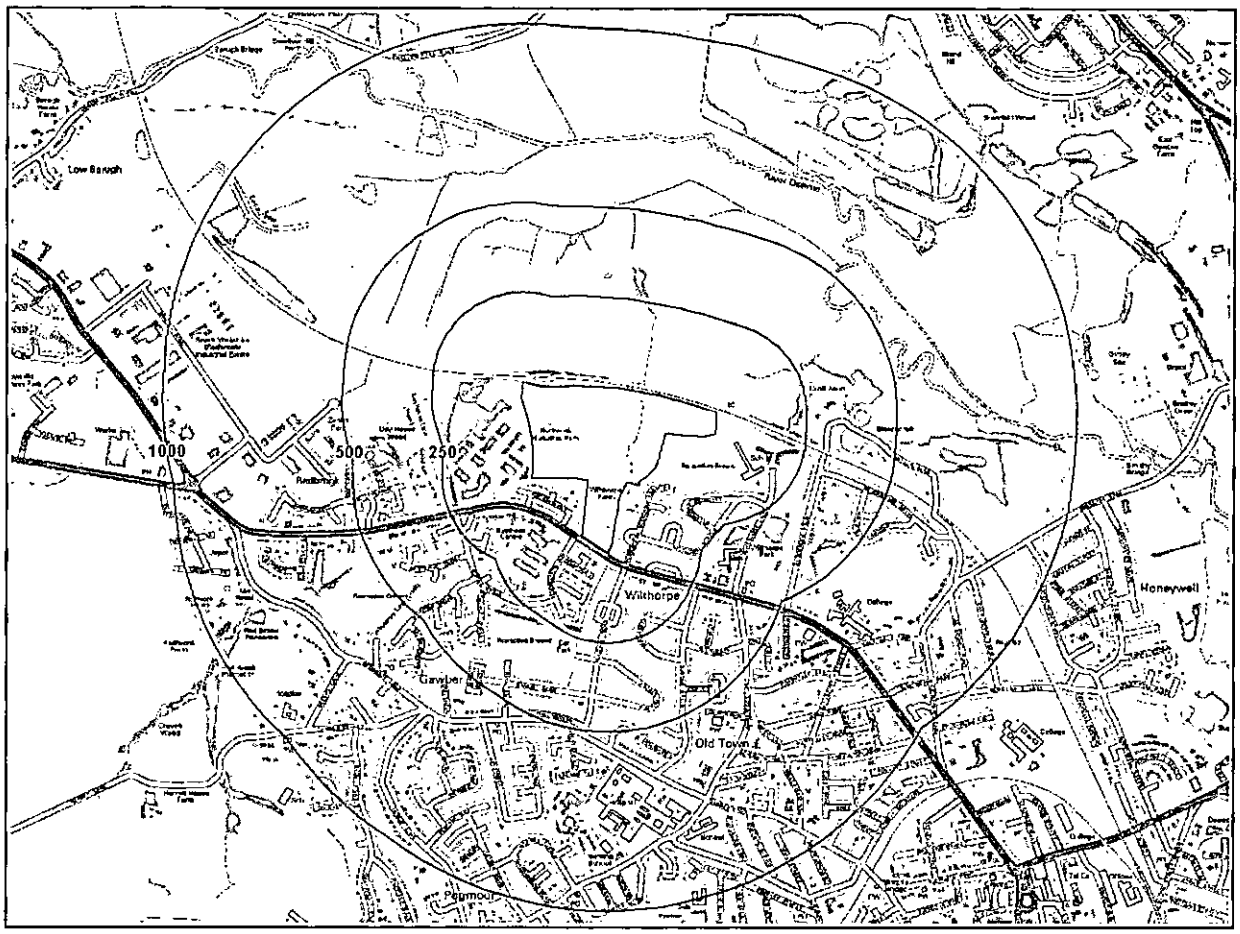
Notes:

Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The **confidence rating** is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map

NW N NE



W E

SW S SE

Designated Environmentally Sensitive Sites Legend

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Site Outline

250
500
Search Buffers (m)

SAC
SSSI
NNR
World Heritage Sites
SPA
Ramsar
LNR
Environmentally Sensitive Areas
Areas of Outstanding Natural Beauty
Nitrate Sensitive Areas
National Parks

8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 500m of the study site: **No**

Records of Sites of Special Scientific Interest (SSSI) within 500m of the study site: **0**

Database searched and no data found.

Records of National Nature Reserves (NNR) within 500m of the study site: **0**

Database searched and no data found.

Records of Special Areas of Conservation (SAC) within 500m of the study site: **0**

Database searched and no data found.

Records of Special Protection Areas (SPA) within 500m of the study site: **0**

Database searched and no data found.

Records of Ramsar sites within 500m of the study site: **0**

Database searched and no data found.

Records of Local Nature Reserves (LNR) within 500m of the study site: **0**

Database searched and no data found.

Records of World Heritage Sites within 500m of the study site: **0**

Database searched and no data found.

Records of Environmentally Sensitive Areas within 500m of the study site: **0**

Database searched and no data found.

Records of Areas of Outstanding Natural Beauty (AONB) within 500m of the study site: **0**

Database searched and no data found.

Records of National Parks (NP) within 500m of the study site: **0**

Database searched and no data found.

Records of Nitrate Sensitive Areas within 500m of the study site: **0**

Database searched and no data found.

9. Additional Information

9.1 Mobile Phone Transmitter Locations

GroundSure's unique mobile phone transmitter database.

Have any mobile phone transmitters been identified within 250m of the study site? **No**

Database searched and no data found.

9.2 Existing and potential OfCom Telecommunication Mast Locations

OfCom telecommunication base station and mast data, which details the height and proposed location of masts over 30 metres in height or with a power level exceeding 17dBW.

Have any OfCom telecommunication masts been identified within 250m of the study site? **Yes**

The following records within 250m have been found within this search:

Distance [m]	Direction	OfCom Reference	Address	Approx. Mast Height (m)
96.0	S	X(P)7765	South Yorkshire, Barnsley, Wilthorpe Rd	11

9.3 Pylons and Electricity Transmission Lines

Have any overhead transmission lines or pylons been identified in proximity to the study site? **Yes**

The following records within 500m have been found within this search:

Distance [m]	Direction
336.0	NW

Guidance:Overhead power transmission lines and/or pylons have been identified in proximity to the study site. Overhead power transmission lines are known to emit electromagnetic fields (EMF). For further information on issues associated with transmission lines you may wish to contact the EMF Unit Public Information Line on 0845 7023270 or visit www.emfs.info. Guidance on electromagnetic fields resulting from transmission and distribution lines can also be found on the Health Protection Agency (HPA) website. GroundSure provide the data for information only and do not make any judgment on the risks or otherwise of EMFs. The database is searched up to 500m.

10. Natural Hazards Findings

10.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information, please obtain a GroundSure Geology and Ground Stability Report. Available from our website. The following information has been found:

10.1.1 Shrink Swell

What is the maximum Shrink-Swell* hazard rating identified on the study site? **Very Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

10.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? **Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property no significant increase in insurance risk due to natural slope instability problems.

10.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? **Null - Negligible**

Soluble rocks are not present in the search area. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

10.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? **Negligible**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

10.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site? **Very Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

10.1.6 Running Sand

What is the maximum Running Sand* hazard rating identified on the study site? **Negligible**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

* This indicates an automatically generated 50m buffer and site.

10.2 Radon

What is the maximum radon potential at the study site?
The property is in a Radon Affected Area, as between 3 and 5% of properties are above the Action Level

Is the property in an area where radon protection measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?
Basic radon protective measures are necessary

Guidance: The responses given on the level of radon protective measures required are based on a joint radon potential dataset from the Health Protection Agency (HPA) and the British Geological Survey (BGS). Basic radon protective measures need to be installed for new dwellings or extensions to existing dwellings, where between 3% but less than 10% of homes are estimated to exceed the Action Level. The joint HPA-BGS radon potential data forms the basis for the Building Research Establishment guidance on radon protective measures for new dwellings (BR211 2007).

11. Non CON29M Mining Information

11.1 Coal Mining

Are there any coal mining areas within 75m of the study site? **Yes**

A Coal Authority CON29M Coal Mining and Brine Subsidence Claim Report is provided in Appendix 1 at the end of this report.

11.2 Shallow Mining

What is the hazard of subsidence relating to shallow mining on site (including a 150m buffer) ? **Low-Moderate**

Guidance: Where low-moderate potential is indicated, this means that the rocks underlying the area are of a type known to have been mined at shallow depth in some parts of the UK, and that such working may be possible in your area. In these cases it is recommended that you seek further advice from a Royal Institute Chartered Surveyor (RICS), the local Building Control Officer, or by ordering a Geological Report from the BGS. It is also recommended that you obtain a Coal Authority mining search, which will provide a comprehensive search of former mining activity, including coal mining at deeper levels.

11.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? **No**

A Coal Authority CON29M Coal Mining and Brine Subsidence Claim Report is provided in Appendix 1 at the end of this report.

12. Contacts

The Coal Authority Property Search Services
200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Email: groundstability@coal.gov.uk
Web: www.groundstability.com

The Coal Authority

British Geological Survey (England & Wales)
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143. Fax: 0115 936 3276. Email: enquiries@bgs.ac.uk
Web: www.bgs.ac.uk
BGS Geological Hazards Reports and general geological enquiries

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency
Tel: 08708 506 506
Yorkshire
Phoenix House - Global Avenue, Leeds, LS11 8PG
Web: www.environment-agency.gov.uk
Email: enquiries@environment-agency.gov.uk

Environment Agency

Health Protection Agency
Chilton, Didcot, Oxon, OX11 0RQ
Tel: 01235 822622 www.hpa.org.uk/radiation
Radon measures and general radon information and guidance

Health Protection Agency

The Coal Authority
200 Lichfield Lane, Mansfield, Notts NG18 4RG
Tel: 0845 762 6848. DX 716176 Mansfield 5
www.groundstability.com
Coal mining reports and related enquiries

The COAL AUTHORITY

Ordnance Survey
Romsey Road
Southampton SO16 4GU
Tel: 08456 050505

Enabled by OS Ordnance Survey

Local Authority
Authority: Barnsley Metropolitan Borough Council
Phone: 01226 770770
Web: www.barnsley.gov.uk/index.asp
Address: Town Hall, Barnsley, South Yorkshire, S70 2TA

Get Mapping PLC
Virginia Villas, High Street, Hartley Witney, Hampshire RG27 8NW
Tel: 01252 845444

getmapping

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Search Code

IMPORTANT CONSUMER PROTECTION INFORMATION

This search has been produced by GroundSure Ltd, Lees House, 21 Dyke Road, Brighton, BN1 3FE. Tel: 08444 159 000. Email: info@groundsure.com which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered search firms maintain compliance with the Code.
The Search Code:

·provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom

·sets out minimum standards which firms compiling and selling search reports have to meet

·promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals

·enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

The Code's core principles

Firms which subscribe to the Search Code will:

·display the Search Code logo prominently on their search reports

·act with integrity and carry out work with due skill, care and diligence

·at all times maintain adequate and appropriate insurance to protect consumers

·conduct business in an honest, fair and professional manner

·handle complaints speedily and fairly

·ensure that products and services comply with industry registration rules and standards and relevant laws

·monitor their compliance with the Code

COMPLAINTS

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award compensation of up to £5,000 to you if he finds that you have suffered actual loss as a result of your search provider failing to keep to the Code.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

TPOs Contact Details:

The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Email: admin@tpos.co.uk
You can get more information about the PCCB from www.propertycodes.org.uk.

PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE

COMPLAINTS PROCEDURE

If you want to make a complaint, we will:

·Acknowledge it within 5 working days of receipt.
·Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt.
·Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time.
·Provide a final response, in writing, at the latest within 40 working days of receipt.
·Liaise, at your request, with anyone acting formally on your behalf.

Complaints should be sent to: Operations Director, GroundSure Ltd, Lees House, 21 Dyke Road, Brighton, BN1 3FE. Tel: 08444 159 000. Email: info@groundsure.com
If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs): Tel: 01722 333306, E-mail: admin@tpos.co.uk.
We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

Standard Terms and Conditions

1 Definitions

In these conditions unless the context otherwise requires:
"Beneficiary" means the Client or the customer of the Client for whom the Client has procured the Services.
"Commercial" means any building which is not Residential.
"Commission" means an order for Consultancy Services submitted by a Client.
"Consultancy Services" mean consultancy services provided by GroundSure including, without limitation, carrying out interpretation of third party and in-house environmental data, provision of environmental consultancy advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.
"Contract" means the contract between GroundSure and the Client for the performance of the Services which arises upon GroundSure's acceptance of an Order or Commission and which shall incorporate these conditions, the relevant GroundSure User Guide, proposal by GroundSure and the content of any subsequent report, and any agreed amendments in accordance with clause 11.
"Client" means the party that submits an Order or Commission.
"Data Provider" means any third party providing Third Party Content to GroundSure.
"Data Report" means reports comprising factual data with no professional interpretation in respect of the level of likely risk and/or liability available from GroundSure.
"GroundSure" means GroundSure Limited, a company registered in England and Wales under number 03421028 and whose registered office is at Greater London House, Hampstead Road, London NW1 7EJ.
"GroundSure Materials" means all materials prepared by GroundSure as a result of the provision of the Services, including but not limited to Data Reports, Mapping and Risk Screening Reports.
"Intellectual Property" means any patent, copyright, design rights, service marks, moral rights, data protection rights, know-how, trade mark or any other intellectual property rights.
"Mapping" an historical map or a combination of historical maps of various ages, time periods and scales available from GroundSure.
"Order" means an order form submitted by the Client requiring Services from GroundSure in respect of a specified Site.
"Order Website" means online platform via which Orders may be placed.
"Report" means a Risk Screening Report or Data Report for commercial or residential property available from GroundSure relating to the Site prepared in accordance with the specifications set out in the relevant User Guide.
"Residential" means any building used as or suitable for use as an individual dwelling.
"Risk Screening Report" means one of GroundSure's risk screening reports, comprising factual data with interpretation in respect of the level of likely risk and/or liability, excluding **"Consultancy Services"**.
"Services" means the provision of any Report, Mapping or Consultancy Services which GroundSure has agreed to carry out for the Client/Beneficiary on these terms and conditions in respect of the Site.
"Site" means the landsite in respect of which GroundSure provides the Services.
"Third Party Content" means any data, database or other information contained in a Report or Mapping which is provided to GroundSure by a Data Provider.
"User Guide" means the relevant current version of the user guide, available upon request from GroundSure.

2 Scope of Services

2.1 GroundSure agrees to carry out the Services in accordance with the Contract and to the extent set out therein.
2.2 GroundSure shall exercise all the reasonable skill, care and diligence to be expected of experienced environmental consultants in the performance of the Services.
2.3 The Client acknowledges that it has not relied on any statement or representation made by or on behalf of GroundSure which is not set out and expressly agreed in the Contract.
2.4 Terms and conditions appearing on a Client's order form, printed stationery or other communication, including invoices, to GroundSure, its employees, servants, agents or other representatives or any terms implied by custom, practice or course of dealing shall be of no effect and these terms and conditions shall prevail over all others.
2.5 If a Client/Beneficiary requests insurance in conjunction with or as a result of the Services, GroundSure shall use reasonable endeavours to procure such insurance, but makes no warranty that such insurance shall be available from insurers or offered on reasonable terms. GroundSure does not endorse or recommend any particular insurance product, policy or insurer. Any insurance purchased shall be subject solely to the terms of the policy issued by insurers and GroundSure will have no liability therefor. The Client/Beneficiary should take independent advice to ensure that the insurance policy requested and/or offered is suitable for its requirements.
2.6 GroundSure's quotations/proposals are valid for a period of 30 days only. GroundSure reserves the right to withdraw any quotation at any time before GroundSure accepts an Order or Commission. GroundSure's acceptance of an Order or Commission shall be effective only where such acceptance is in writing and signed by GroundSure's authorised representative or where accepted via GroundSure's Order Website.

3 The Client's obligations

3.1 The Client shall ensure the Beneficiary complies with and is bound by the terms and conditions set out in the Contract and shall provide that Groundsure may in its own right enforce such terms and conditions against the Beneficiary pursuant to the Contracts (Rights of Third parties) Act 1999. The Client shall be liable for all breaches of the Contract by the Beneficiary as if they were breaches by the Client. The Client shall be solely responsible for ensuring that the Report/Mapping ordered is appropriate and suitable for the Beneficiary's needs.
3.2 The Client shall (or shall procure that the Beneficiary shall) supply to GroundSure as soon as practicable and without charge all information necessary and accurate relevant data including any specific and/or unusual environmental information relating to the Site known to the Client/Beneficiary which may pertain to the Services and shall give such assistance as GroundSure shall reasonably require in the performance of the Services (including, without limitation, access to a Site, facilities and equipment as agreed in the Contract).
3.3 Where Client/Beneficiary approval or decision is required, such approval or decision shall be given or procured in reasonable time as not to delay or disrupt the performance of any other part of the Services.
3.4 The Client shall not and shall not knowingly permit the Beneficiary to, save as expressly permitted by these terms and conditions, re-sell, alter, add to, amend or use out of context the content of any Report, Mapping or, in respect of any Services, information given by GroundSure. For the avoidance of doubt, the Client and Beneficiary may make the Report, Mapping or GroundSure's findings available to a third party who is considering acquiring the whole or part of the Site, or providing funding in relation to the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.
3.5 The Client is responsible for maintaining the confidentiality of its user name and password if using GroundSure's internet ordering service and accepts responsibility for all activity that occurs under such account and password.

4 Reliance

4.1 Upon full payment of all relevant fees and subject to the provisions of these terms and conditions, the Client and Beneficiary are granted an irrevocable royalty-free licence to access the information contained in a Report, Mapping or in a report prepared by GroundSure in respect of or arising out of Consultancy Services. The Services may only be used for the benefit of the Client and those persons listed in clauses 4.2 and 4.3.
4.2 In relation to Data Reports, Mapping and Risk Screening Reports, the Client shall be entitled to make Reports available to (i) the Beneficiary, (ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate), (iv) the first purchaser or first tenant of the Site (v) the professional advisers and lenders of the first purchaser or tenant of the Site. Accordingly GroundSure shall have the same duties and obligations to those persons in respect of the Services as it has to the Client and those persons shall have the benefit of any of the Client's rights under the Contract as if those persons were parties to the Contract. For the avoidance of doubt, the limitations of GroundSure's liability as set out in clauses 7 and 11.6 shall apply.
4.3 In relation to Consultancy Services, reliance shall be limited to the Client, Beneficiary and named parties on the Report.
4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise agreed in writing with GroundSure, any other party considering the information supplied by GroundSure as part of the Services, including (but not limited to) insurance underwriters, does so at their own risk and GroundSure has no legal obligations to such party unless otherwise agreed in writing.
4.5 The Client shall not and shall not knowingly permit any person (including the Beneficiary) who is provided with a copy of any Report, (except as permitted herein or by separate agreement with GroundSure) to,: (a) remove, suppress or modify any trade mark, copyright or other proprietary marking from the Report or Mapping; (b) create any product which is derived directly or indirectly from the data contained in the Report or Mapping; (c) combine the Report or Mapping with, or incorporate the Report or Mapping into any other information data or service; or (d) re-format or otherwise change (whether by modification, addition or enhancement) data or images contained in the Report or Mapping.
4.6 Notwithstanding clause 4.5, if the Client acts in a professional capacity, it may make reasonable use of a Report and/or findings made as a result of Consultancy Services to advise Beneficiaries. However, GroundSure shall have no liability in respect of any opinion or report given to such Beneficiaries by the Client or a third party.

5 Fees and Disbursements

5.1 GroundSure shall charge the Client fees at the rate and frequency specified in the Contract together, in the case of Consultancy Services, with all proper disbursements incurred by GroundSure in performing the Services. For the avoidance of doubt, the fees payable for the Services are as set out in GroundSure's written proposal, Order Website or Order acknowledgement form. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services.
5.2 Unless GroundSure requires prepayment, the Client shall promptly pay all fees disbursements and other monies due to GroundSure in full without deduction, counterclaim or set off together with such value added tax or other tax as may be required within 30 days from the date of GroundSure's invoice or such other period as may be agreed in writing between GroundSure and the Client ("Payment Date"). GroundSure reserves the right to charge interest which shall accrue on a daily basis from 30 days after the date of Payment Date until the date of payment (whether before or after judgment) at the rate of five per cent per annum above the Bank of England base rate from time to time.
5.3 In the event that the Client disputes the amount payable in respect of GroundSure's invoice it shall notify GroundSure no later than 28 days after the date thereof that it is in dispute. In default of such notification the Client shall be deemed to have agreed the amount thereof. As soon as reasonably practicable following receipt of a notification in respect of any disputed invoice, a member of the management team at GroundSure shall contact the Client and the parties shall use all reasonable endeavours to resolve the dispute.

6 Intellectual Property and Confidentiality

6.1 Subject to the provisions of clause 4.1, the Client and the Beneficiary hereby acknowledge that all Intellectual Property in the Services and Content are and shall remain owned by either GroundSure or the Data Providers and nothing in these terms purports to transfer or assign any rights to the Client or the Beneficiary in respect of the Intellectual Property.
6.2 The Client shall acknowledge the ownership of the Third Party Content where such Third Party Content is incorporated or used in the Client's own documents, reports, systems or services whether or not these are supplied to a third party.
6.3 Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.
6.4 The Client acknowledges that the proprietary rights subsisting in copyright, database rights and any other intellectual property rights in respect of any data and information contained in any Report are and shall remain (subject to clause 11.1) the property of GroundSure and/or any third party that has supplied data or information used to create a Report, and that these conditions do not purport to grant, assign or transfer any such rights in respect thereof to a Client and/or a Beneficiary.
6.5 The Client shall (and shall procure that any recipients of the Report as permitted under clause 4.2 shall):
(i) not remove, suppress or modify any trademark, copyright or other proprietary marking belonging to GroundSure or any third party from the Services;
(ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;

(iii) not create any product or report which is derived directly or indirectly from the data contained in the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);
(iv) not combine the Services with or incorporate such Services into any other information data or service; and
(v) not reformat or otherwise change (whether by modification, addition or enhancement), data contained in the Services (save that those acting in a professional capacity to the Beneficiary shall not be in breach of this clause 6.5(v) where such reformatting is in the normal course of providing advice based upon the Services),
in each case of parts (iii) to (v) inclusive, whether or not such product or report is produced for commercial profit or not.

6.6 The Client and/or Beneficiary shall and shall procure that any party to whom the Services are made available shall notify GroundSure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

6.8 Save as otherwise set out in these terms and conditions, any information provided by one party ("**Disclosing Party**") to the other party ("**Receiving Party**") shall be treated as confidential and only used for the purposes of these terms and conditions, except in so far as the Receiving Party is authorised by the Disclosing Party to provide such information in whole or in part to a third party.

7 Liability

THE CLIENT'S ATTENTION IS DRAWN TO THIS PROVISION

7.1 Subject to the provisions of this clause 7, GroundSure shall be liable to the Beneficiary only in relation to any direct losses or damages caused by any negligent act or omission of GroundSure in preparing the GroundSure Materials and provided that the Beneficiary has used all reasonable endeavours to mitigate any such losses.

7.2 GroundSure shall not be liable for any other losses or damages incurred by the Beneficiary, including but not limited to:
(i) loss of profit, revenue, business or goodwill, losses relating to business interruption, loss of anticipated savings, loss of or corruption to data or for any special, indirect or consequential loss or damage which arise out of or in connection with the GroundSure Materials or otherwise in relation to a Contract;
(ii) any losses or damages that arise as a result of the use of all or part of the GroundSure Materials in breach of these terms and conditions or contrary to the terms of the relevant User Guide;
(iii) any losses or damages that arise as a result of any error, omission or inaccuracy in any part of the GroundSure Materials where such part is based on any Third Party Content or any reasonable interpretation of Third Party Content. The Client accepts, and shall procure that any other Beneficiary shall accept, that it has no claim or recourse to any Data Provider in relation to Third Party Content; and/or
(iv) any loss or damage to a Client's computer, software, modem, telephone or other property caused by a delay or loss of use of GroundSure's internet ordering service.

7.3 GroudSure's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the GroundSure Materials or otherwise in relation to the Contract shall be limited to £10 million in total (i) for any one claim or (ii) for a series of connected claims brought by one or more parties.

7.4 For the duration of the liability periods set out in clauses 7.5 and 7.6 below, GroundSure shall maintain professional indemnity insurance in respect of its liability under these terms and conditions provided such insurance is readily available at commercially viable rates. GroundSure shall produce evidence of such insurance if reasonably requested by the Client. A level of cover greater than GroundSure's current level of cover may be available upon request and agreement with the Client.

7.5 Any claim under the Contract in relation to Data Reports, Mapping and Risk Screening Reports, must be brought within six years from the date when the Beneficiary became aware that it may have a claim and in no event may a claim be brought twelve years or more after completion of such a Contract. For the avoidance of doubt, any claim in respect of which proceedings are notified to GroundSure in writing prior to the expiry of the time periods referred to in this clause 7.5 shall survive the expiry of those time periods provided the claim is actually commenced within six months of notification.

7.6 Any claim under the Contract in relation to Consultancy Services, must be brought within six years from the date the Consultancy Services were completed.

7.7 he Client accepts and shall procure that any other Beneficiary shall accept that it has no claim or recourse to any Data Provider or to GroundSure in respect of the acts or omissions of any Data Provider and/or any Third Party Content provided by a Data Provider.

7.8 Nothing in these terms and conditions:
(i) excludes or limits the liability of GroundSure for death or personal injury caused by GroundSure's negligence, or for fraudulent misrepresentation; or
(ii) shall affect the statutory rights of a consumer under the applicable legislation.

8 GroundSure right to suspend or terminate

8.1 In the event that GroundSure reasonably believes that the Client or Beneficiary as applicable has not provided the information or assistance required to enable the proper performance of the Services, GroundSure shall be entitled on fourteen days written notice to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 GroundSure may additionally terminate the Contract immediately on written notice in the event that:
(i)the Client shall fail to pay any sum due to GroundSure within 28 days of the Payment Date; or
(ii)the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an Administration Order made against it or if a Receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or
(iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or
(iv)the Client or the Beneficiary breaches any material term of the Contract (including, but not limited to, the obligations in clause 4) incapable of remedy or if remediable, is not remedied within 14 days of notice of the breach.

9 Client's Right to Terminate and Suspend

9.1 Subject to clause 10.2, the Client may at any time after commencement of the Services by notice in writing to GroundSure require GroundSure to terminate or suspend immediately performance of all or any of the Services.

9.2 The Client waives all and any right of cancellation it may have under the Consumer Protection (Distance Selling) Regulations 2000 (as amended) in respect of the Order of a Report/Mapping. This does not affect the Beneficiary's statutory rights.

10 Consequences of Withdrawal, Termination or Suspension

10.1 Upon termination or any suspension of the Services, GroundSure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client/Beneficiary any property of the Client/ Beneficiary in GroundSure's possession or control.

10.2 In the event of termination/suspension of the Contract under clauses 8 or 9, the Client shall pay to GroundSure all and any fees payable in respect of the performance of the Services up to the date of termination/suspension. In respect of any Consultancy Services provided, the Client shall also pay GroundSure any additional costs incurred in relation to the termination/suspension of the Contract.

11 General

11.1 The mapping contained in the Services is protected by Crown copyright and must not be used for any purpose outside the context of the Services or as specifically provided in these terms.

11.2 GroundSure reserves the right to amend these terms and conditions. No variation to these terms shall be valid unless signed by an authorised representative of GroundSure.

11.3 No failure on the part of GroundSure to exercise and no delay in exercising, any right, power or provision under these terms and conditions shall operate as a waiver thereof.

11.4 Save as expressly provided in clauses 4.2, 4.3, 6.3 and 11.5, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

11.5 The Secretary of State for Communities and Local Government acting through Ordnance Survey may enforce breach of clause 6.1 of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

11.6 GroundSure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:
(i) the Client or Beneficiary's failure to provide facilities, access or information;
(ii) fire, storm, flood, tempest or epidemic;
(iii) Acts of God or the public enemy;
(iv) riot, civil commotion or war;
(v) strikes, labour disputes or industrial action;
(vi) acts or regulations of any governmental or other agency;
(vii) suspension or delay of services at public registries by Data Providers; or
(viii) changes in law.

11.7 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

11.8 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email and on the second working day after the day of posting if sent by first class post.

11.9 The Contract constitutes the entire contract between the parties and shall supersede all previous arrangements between the parties.

11.10 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

11.11 These terms and conditions shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with these terms and conditions shall be subject to the exclusive jurisdiction of the English courts.

11.12 If the Client or Beneficiary has a complaint about the Services, notice can be given in any format eg writing, phone, email to the Compliance Officer at GroundSure who will respond in a timely manner.

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Appendix 1
The Coal Authority CON29M Coal Mining and Brine Subsidence Claim report

The COAL AUTHORITY

Issued by:
The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0845 762 6848 DX 716176 MANSFIELD 5

LAND RESTORATION & MANAGEMENT LTD
3 PARK CLOSE
SHELLEY
HUDDERSFIELD
HD8 8JF

Our reference:	**51000148183001**
Your reference:	**LRM**
Date of your enquiry:	**20 September 2012**
Date we received your enquiry:	**20 September 2012**
Date of issue:	**21 September 2012**

This report is for the property described in the address below and the attached plan.

Non-Residential Enviro All-in-One - On Coalfield

LAND AT WILTHORPE ROAD, WILTHORPE ROAD, WILTHORPE, BARNSLEY, SOUTH YORKSHIRE,

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

The property is in the likely zone of influence from workings in 7 seams of coal at 40m to 420m depth, and last worked in 1987.

Any ground movement from these coal workings should have stopped by now.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

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

The property is not in an area that is likely to be affected at the surface from any planned future workings.

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

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

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

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Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

Coal mining geology

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

Opencast coal mining

Past

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

Present

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

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

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

Coal mining subsidence

There are 3 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the attached plan.

The 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.

If further subsidence damage claims information is required in addition to that provided in this report, the Authority need to manually search their records. For further advice on how to order this additional information visit www.groundstability.com or telephone 0845 7626 848.

Mine gas

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

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

Withdrawal of support

The property is in an area for which notices of entitlement to withdraw support were published in 1956, 1977, 1978.

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

Working facilities orders

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

Payments to owners of former copyhold land

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

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

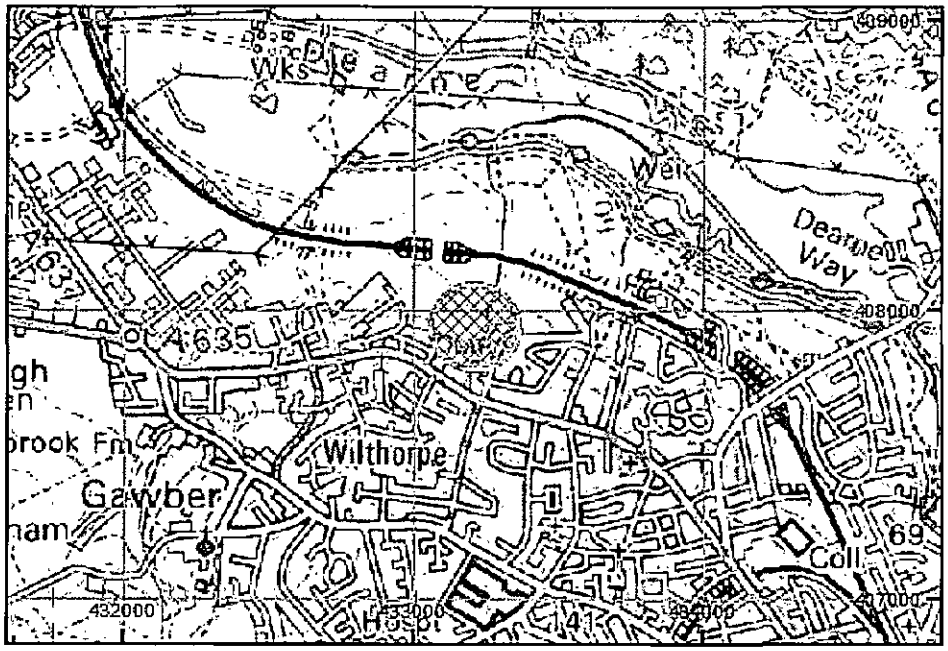
This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006.

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Issued by:	The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG
Tax Point Date:	20 September 2012
Issued to:	LAND RESTORATION & MANAGEMENT LTD 3 PARK CLOSE SHELLEY HUDDERSFIELD HD8 8JF
Property Search for:	LAND AT WILTHORPE ROAD, WILTHORPE ROAD, WILTHORPE, BARNSLEY, SOUTH YORKSHIRE,
Reference Number:	51000148183001
Date of Issue:	21 September 2012
Cost:	£198.00
VAT @ 20%:	£39.60
Total Received:	£237.60
VAT Registration	598 5850 68

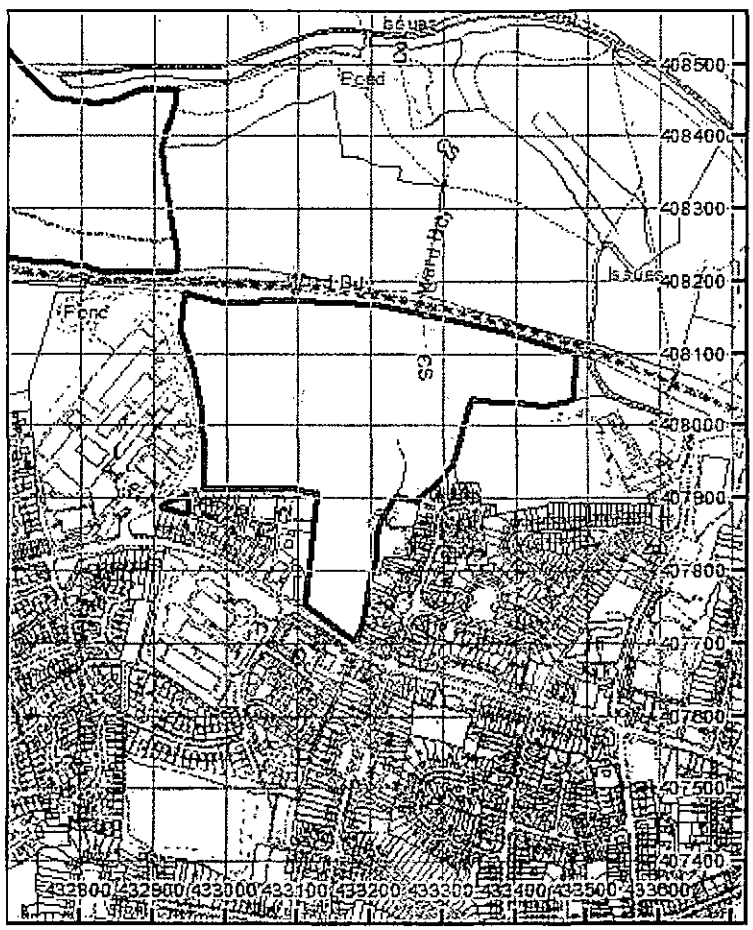
Location map

Approximate position of property



Enquiry boundary

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Key

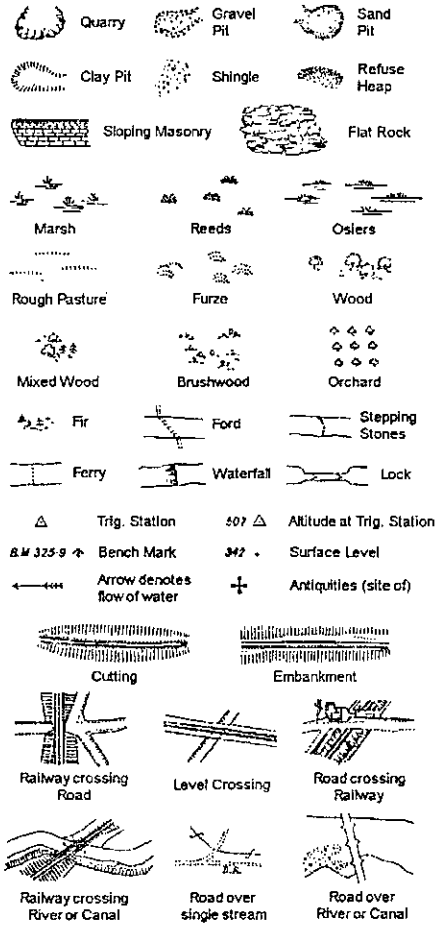
Approximate position of enquiry boundary shown

Coal Claims

Mapping sourced from OS Ordnance Survey

Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



County Boundary (Geographical)

County & Civil Parish Boundary

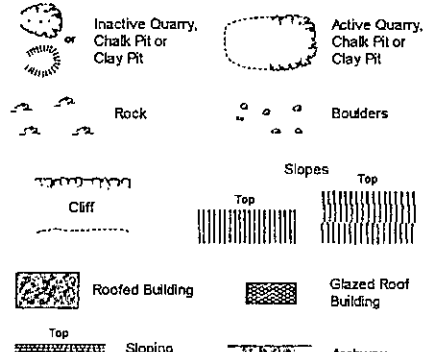
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B.S B.S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



E T L Electricity Transmission Line

County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

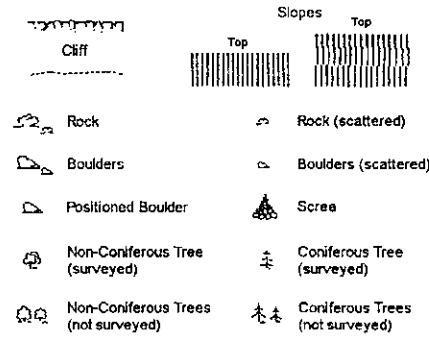
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

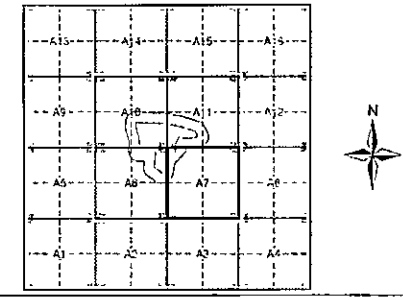
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Fnt.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governor	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1892 - 1893	2
Yorkshire	1:2,500	1906	3
Yorkshire	1:2,500	1931	4
Ordnance Survey Plan	1:1,250	1959	5
Ordnance Survey Plan	1:2,500	1960	6
Ordnance Survey Plan	1:1,250	1965 - 1978	7
Ordnance Survey Plan	1:2,500	1969	8
Supply of Unpublished Survey Information	1:1,250	1975	9
Ordnance Survey Plan	1:1,250	1978	10
Additional SIMs	1:1,250	1991	11
Large-Scale National Grid Data	1:1,250	1993	12
Large-Scale National Grid Data	1:1,250	1995	13
Large-Scale National Grid Data	1:1,250	1996	14

Historical Map - Segment A7



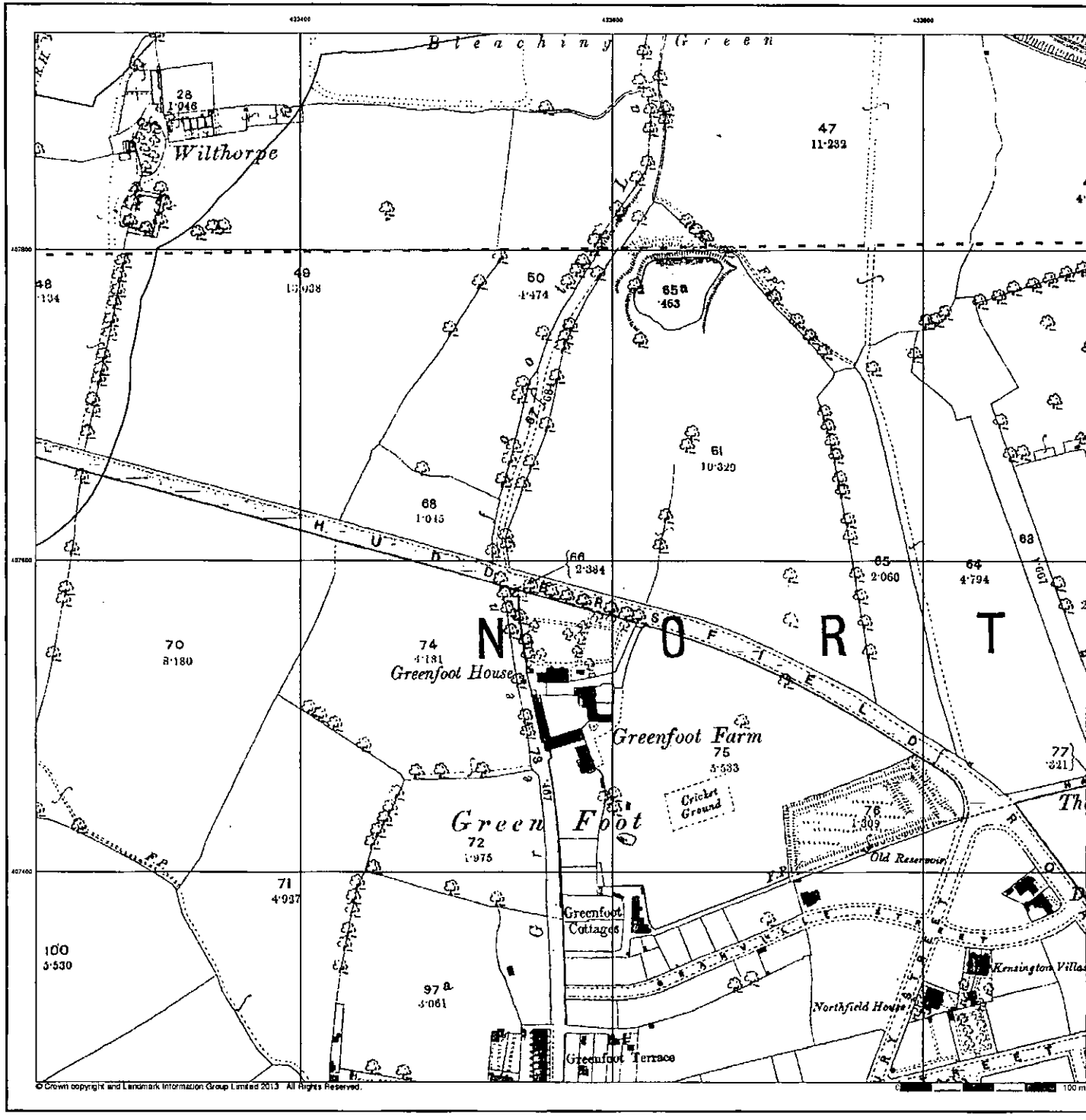
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National Grid Reference: 433200, 407990
Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 100

Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN

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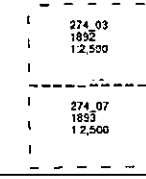
Yorkshire

Published 1892 - 1893

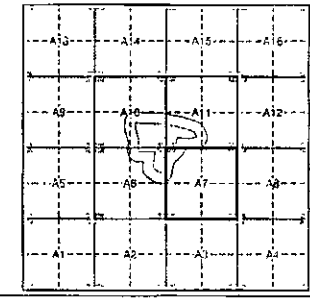
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A7



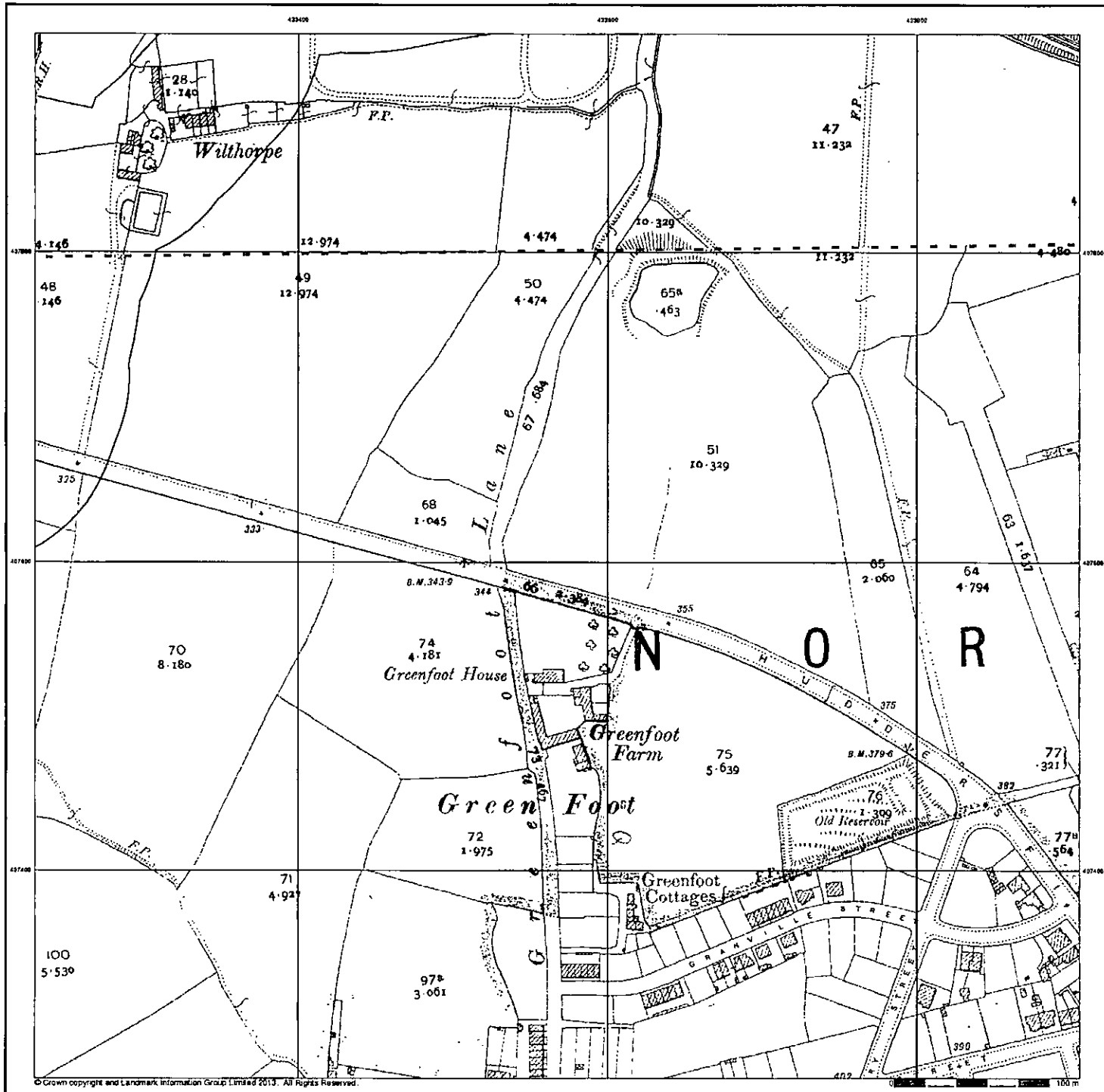
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National Grid Reference:	433200, 407990
Slice:	A
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0 100 m

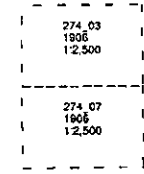
Yorkshire

Published 1906

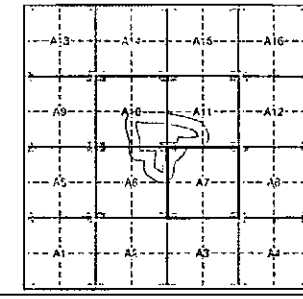
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Map Name(s) and Date(s)



Historical Map - Segment A7



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sirius

Yorkshire

Published 1931

Source map scale - 1:2,500

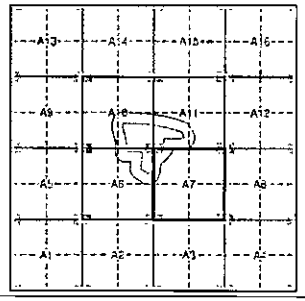
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Map Name(s) and Date(s)

274_03
1931
1:2,500

274_07
1931
1:2,500

Historical Map - Segment A7



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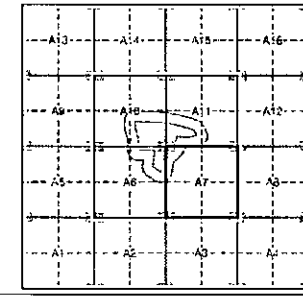
Ordnance Survey Plan
Published 1959
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE3307NW 1959 1:1,250	SE3307NE 1959 1:1,250
SE3307SW 1959 1:1,250	SE3307SE 1959 1:1,250

Historical Map - Segment A7



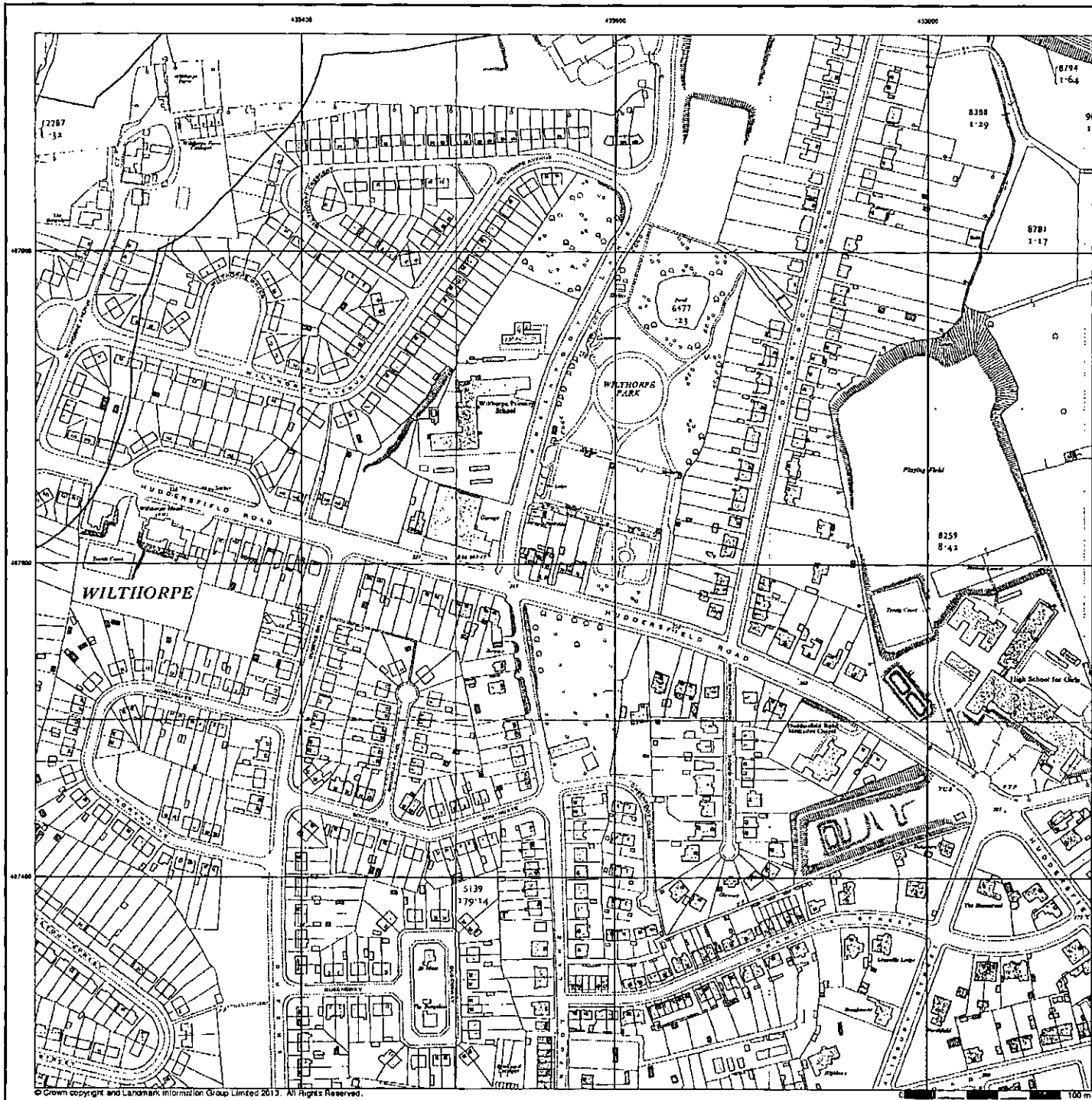
Order Details

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Customer Ref:	Wilthorpe Road, Barnsley
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Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

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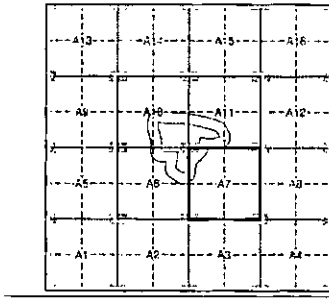
Ordnance Survey Plan
Published 1960
Source map scale - 1:2,500

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Map Name(s) and Date(s)

SE3307
1960
1:2,500

Historical Map - Segment A7



Order Details

Order Number:	51060043_1_1
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National Grid Reference:	433200, 407990
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Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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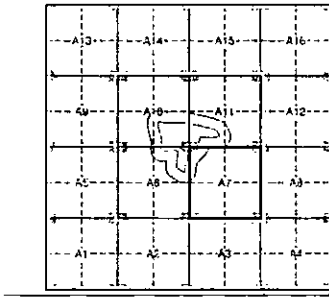
Ordnance Survey Plan
Published 1965 - 1978
Source map scale - 1:1,250

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Map Name(s) and Date(s)

SE3307NW 1978 1:1,250	SE3307NE 1965 1:1,250
SE3307SW 1965 1:1,250	SE3307SE 1974 1:1,250

Historical Map - Segment A7



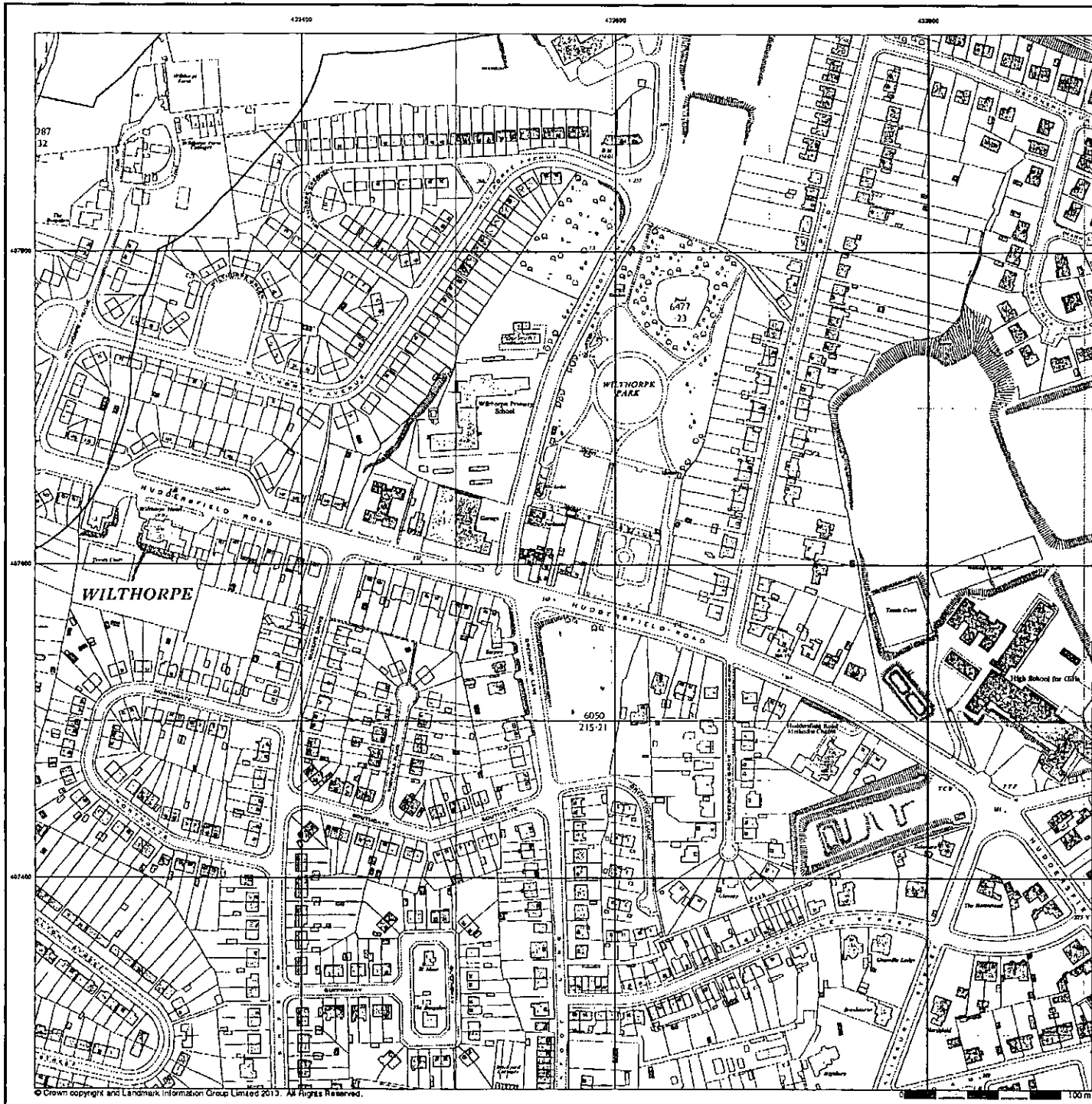
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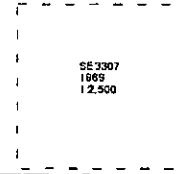


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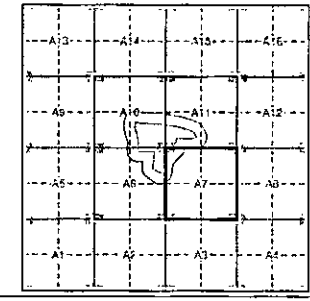
Ordnance Survey Plan
Published 1969
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A7



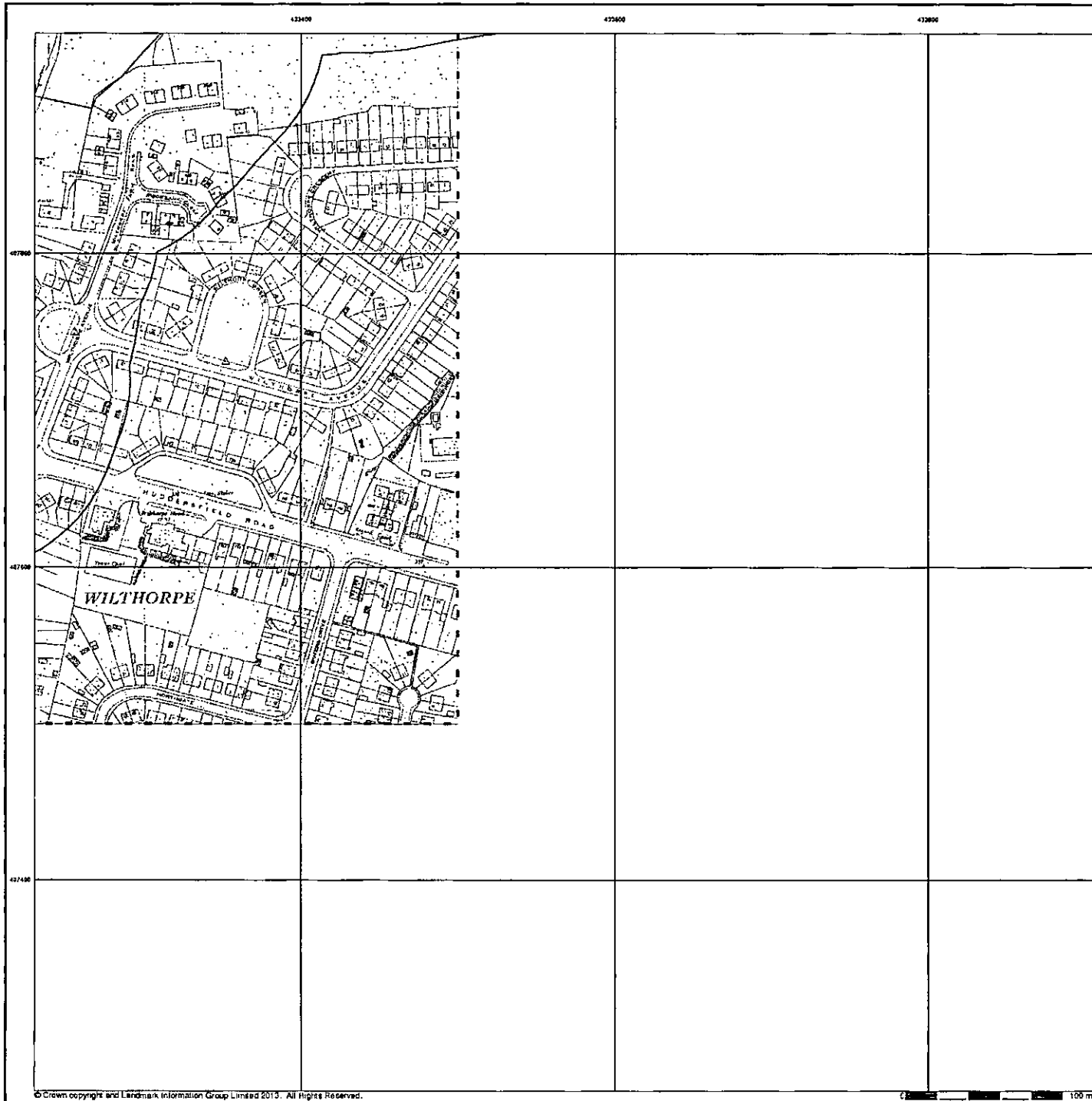
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Order Number:	51060043_1_1
Customer Ref:	Willthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

Land North of Willthorpe Road, Barnsley, South Yorkshire, S75 1JN

Landmark Information Group
Tel 0844 844 9952
Fax: 0844 844 9951
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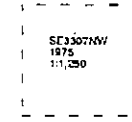
Supply of Unpublished Survey Information

Published 1975

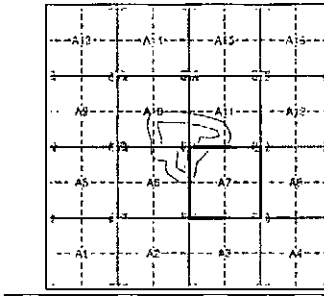
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. Those maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A7



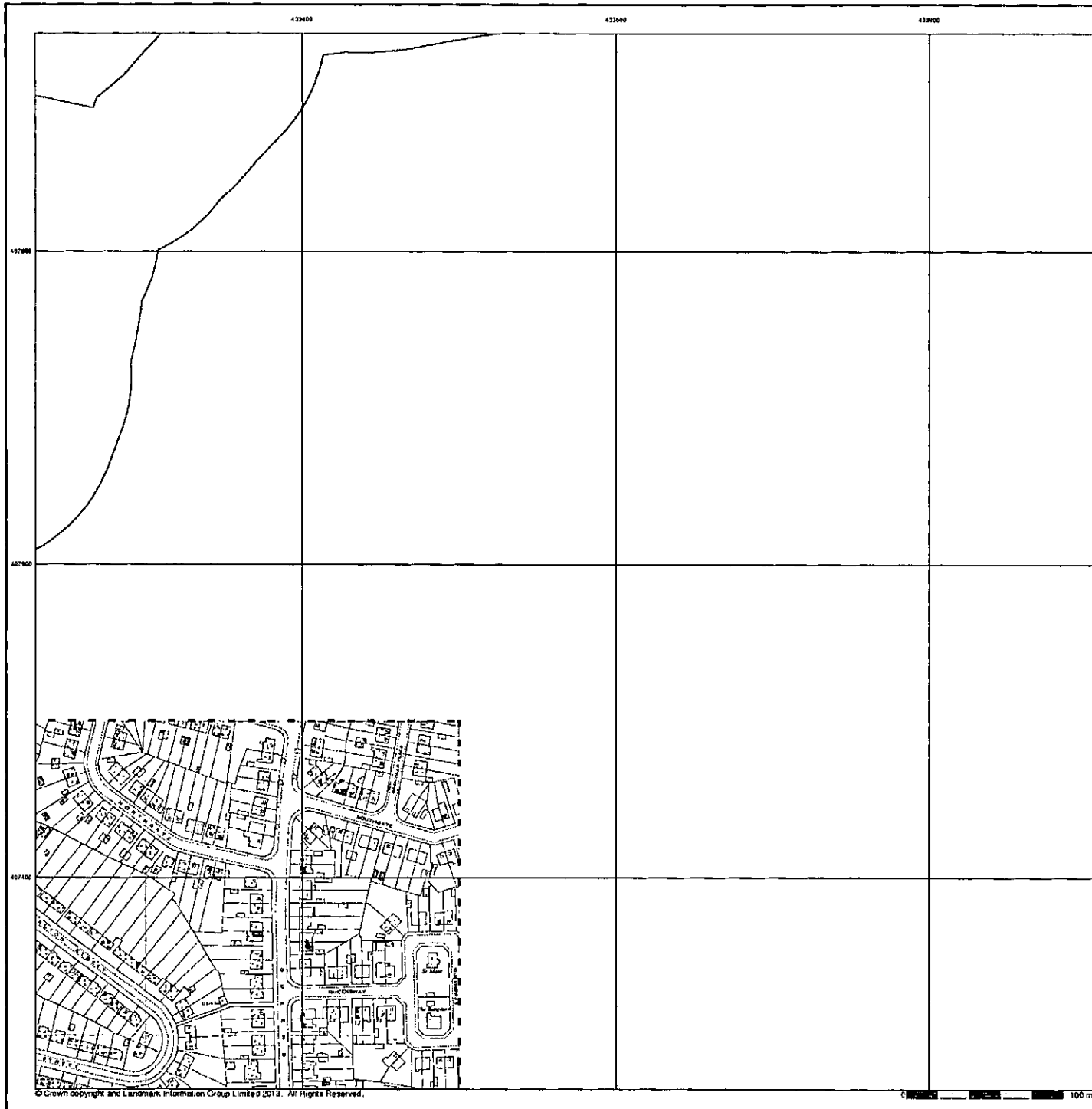
Order Details

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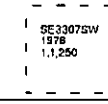


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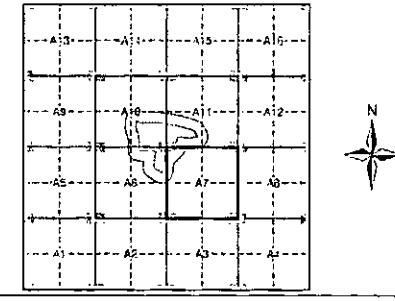
Ordnance Survey Plan
Published 1978
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A7



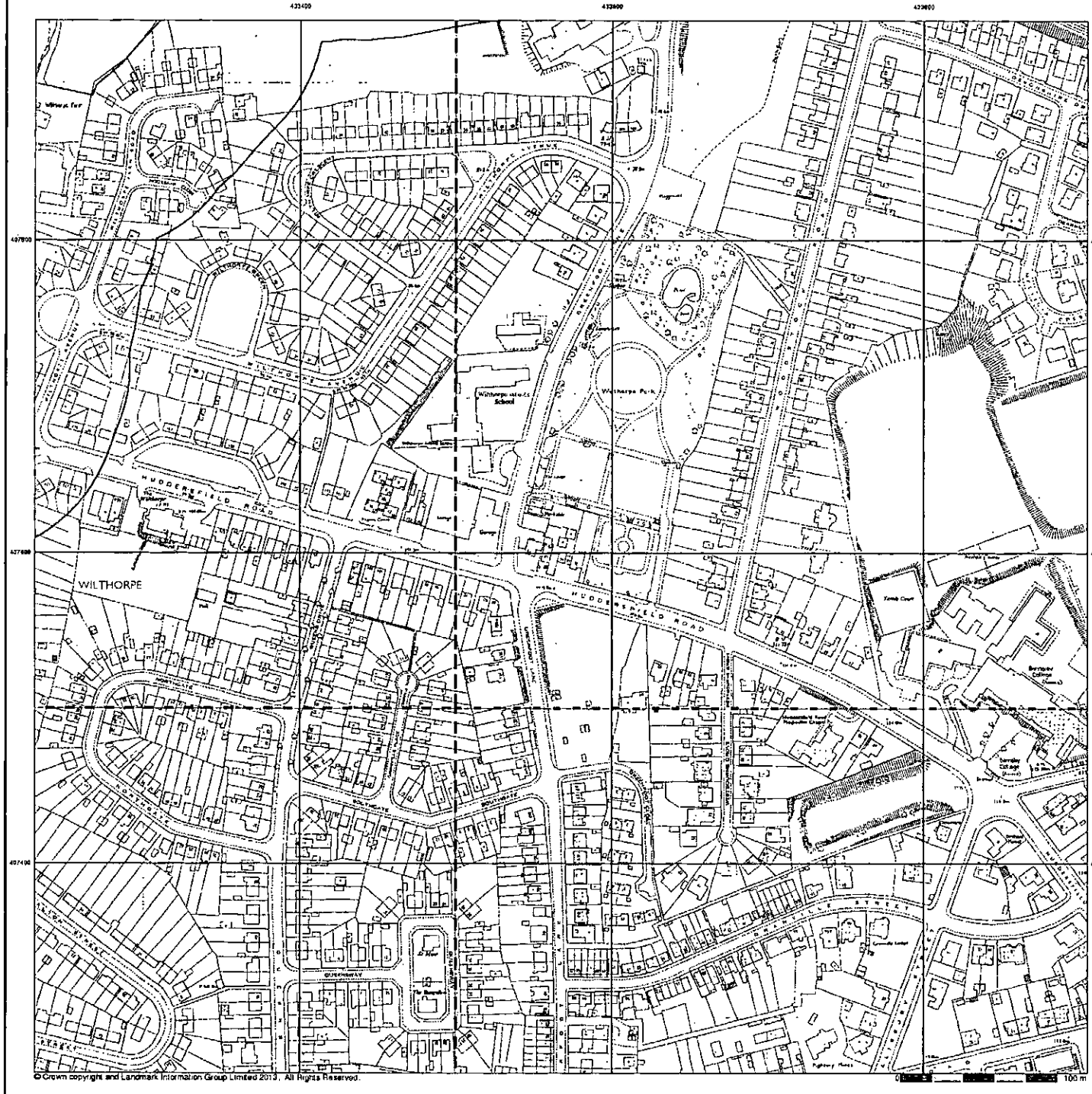
Order Details

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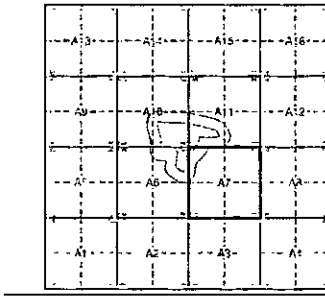
Additional SIMs
Published 1991
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3307NW 1991 1:1,250	SE3307NE 1991 1:1,250
SE3307SW 1991 1:1,250	SE3307SE 1991 1:1,250

Historical Map - Segment A7



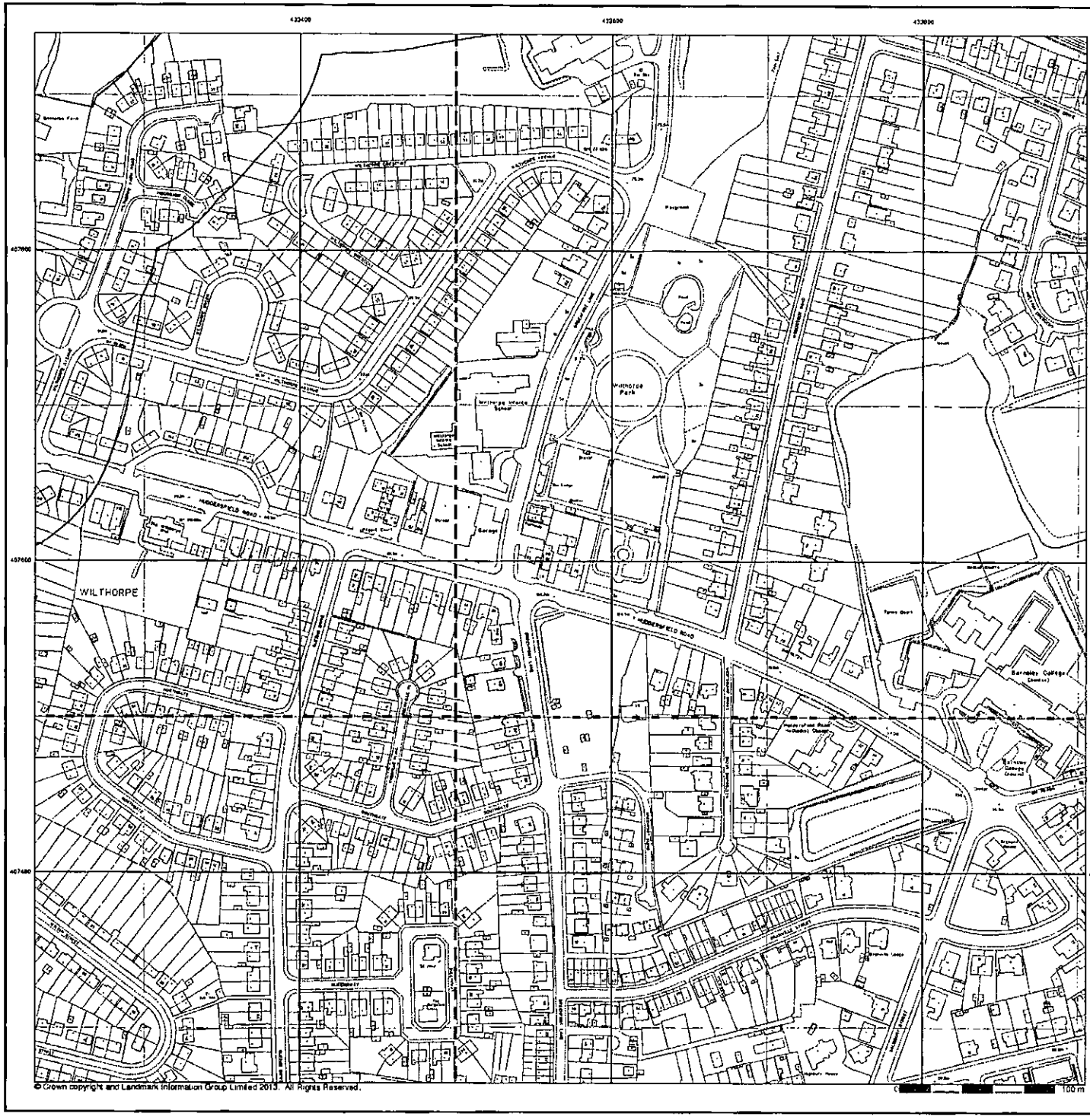
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sirius

Large-Scale National Grid Data

Published 1993

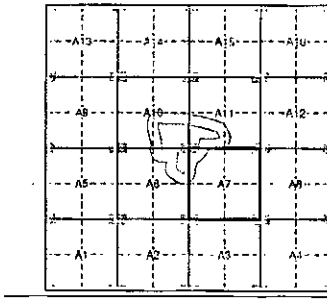
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3307NW 1993 1:1,250	SE3307NE 1993 1:1,250
SE3307SW 1993 1:1,250	SE3307SE 1993 1:1,250

Historical Map - Segment A7



Order Details

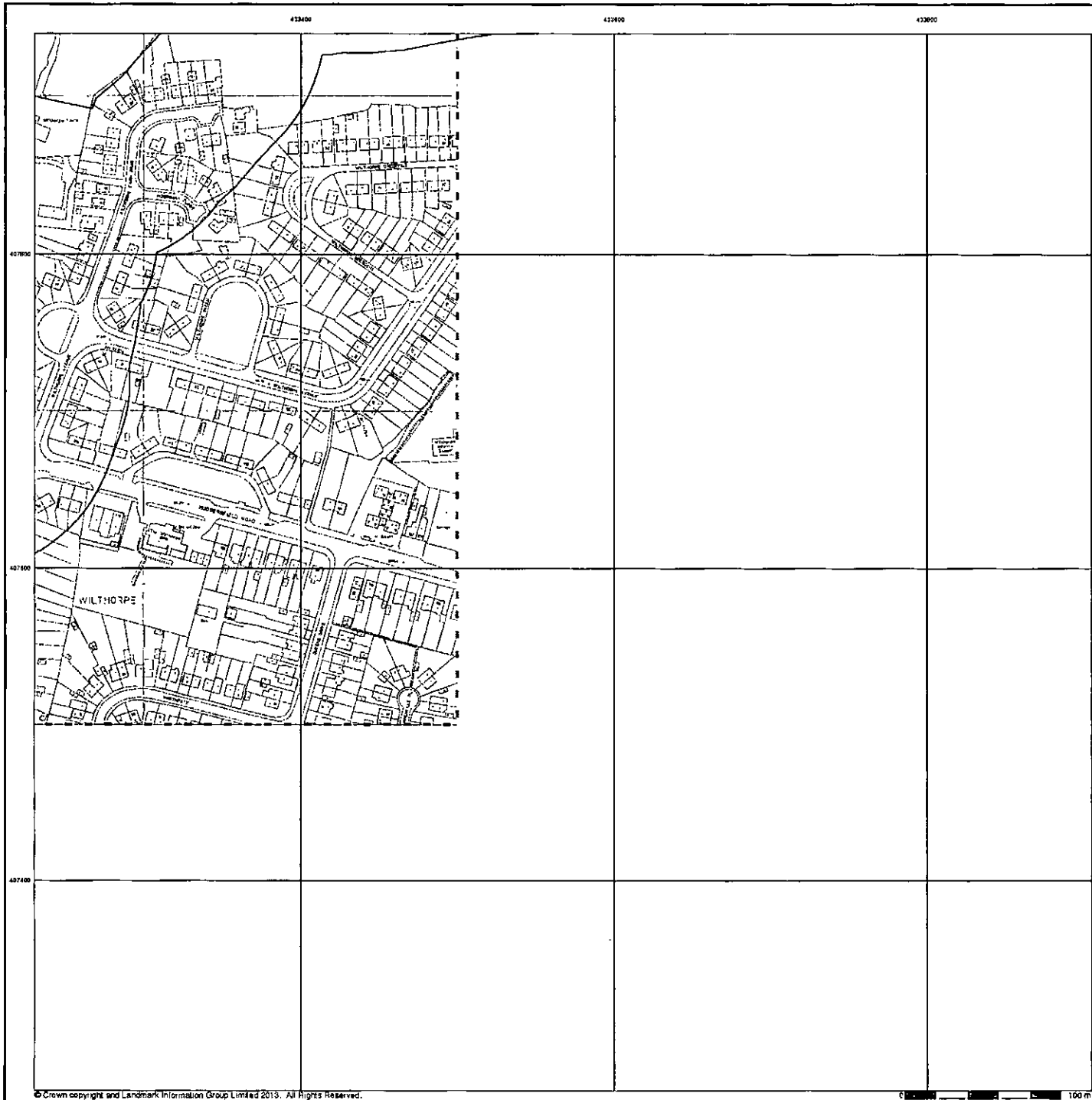
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Large-Scale National Grid Data

Published 1995

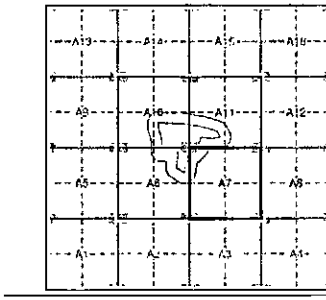
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A7



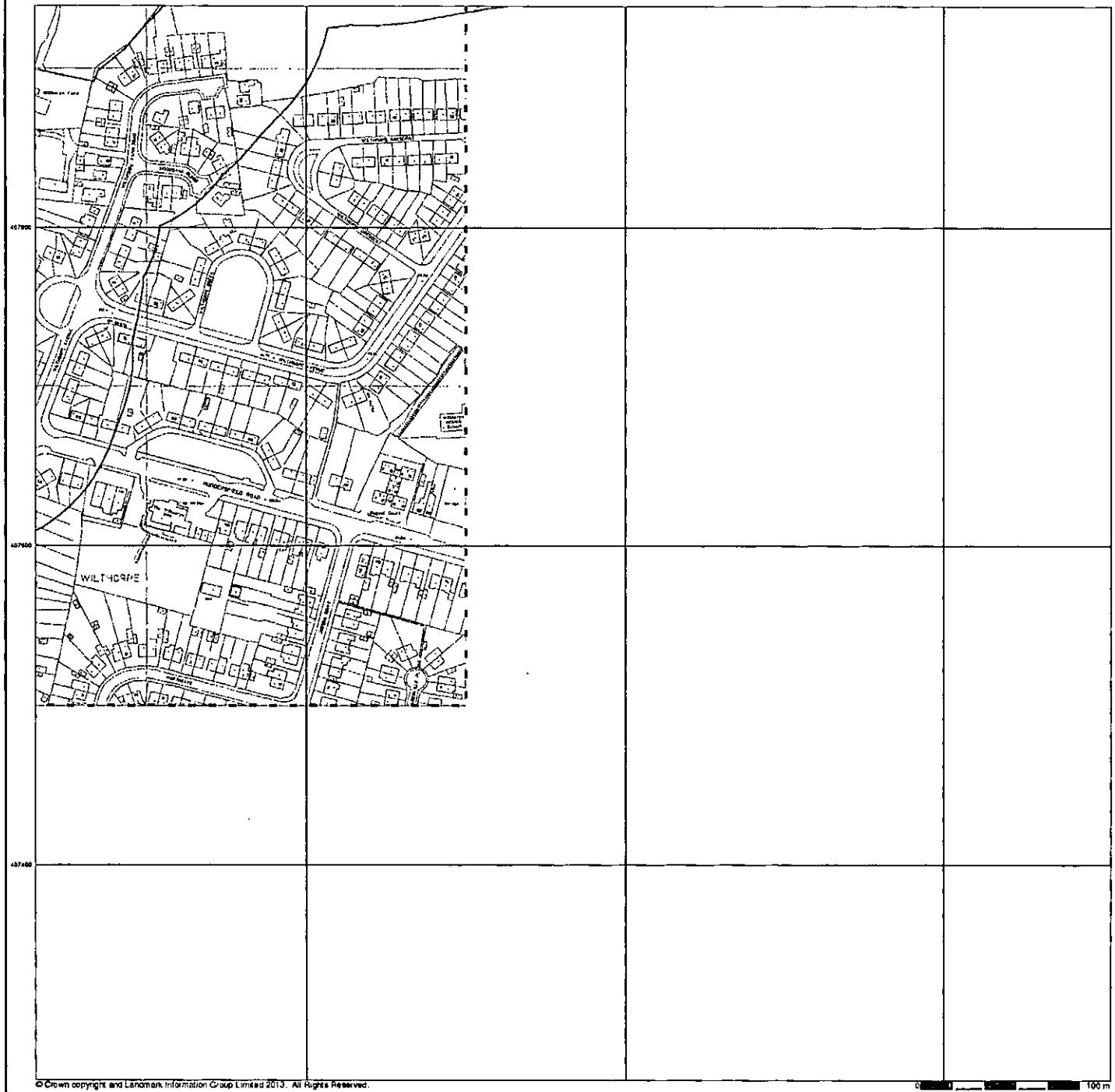
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sirius

Large-Scale National Grid Data

Published 1996

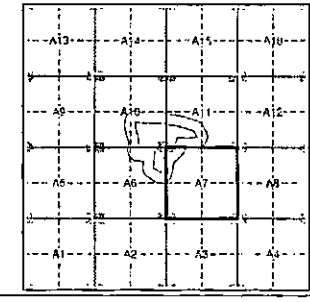
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A7



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Site Details

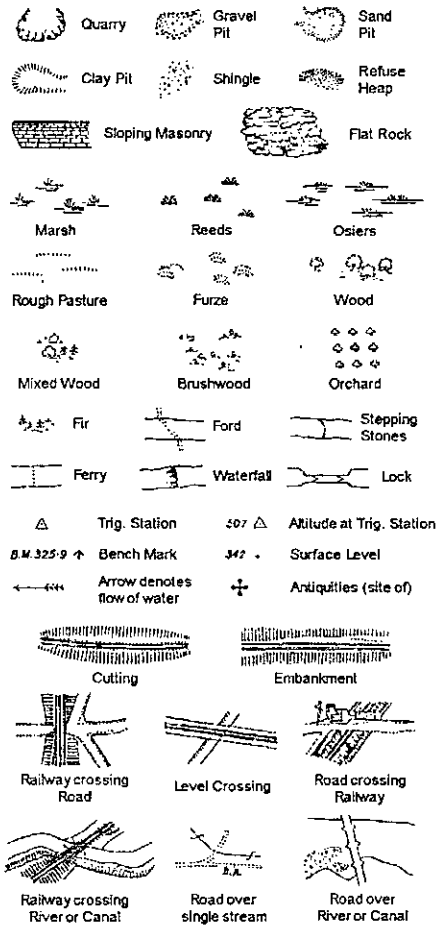
Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN

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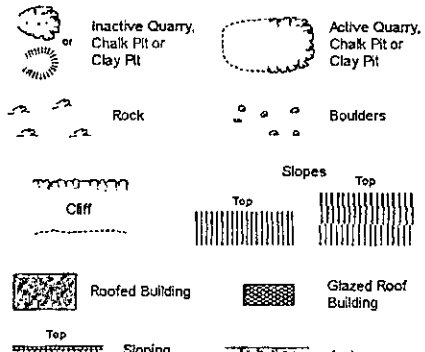
Historical Mapping Legends

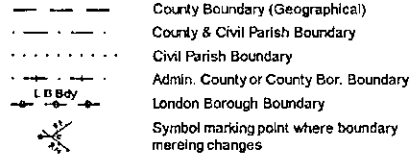
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



B P B S	Boundary Post or Stone	*P.C.B*	Police Call Box
B.R.	Bridle Road	*P*	Pump
E.P	Electricity Pylon	*S.P*	Signal Post
F.B.	Foot Bridge	*Sl.*	Sluice
F.P.	Foot Path	*Sp.*	Spring
G.P	Guide Post or Board	*T.C.B*	Telephone Call Box
M.S	Mile Stone	*Tr.*	Trough
M.P M.R	Mooring Post or Ring	*W*	Well

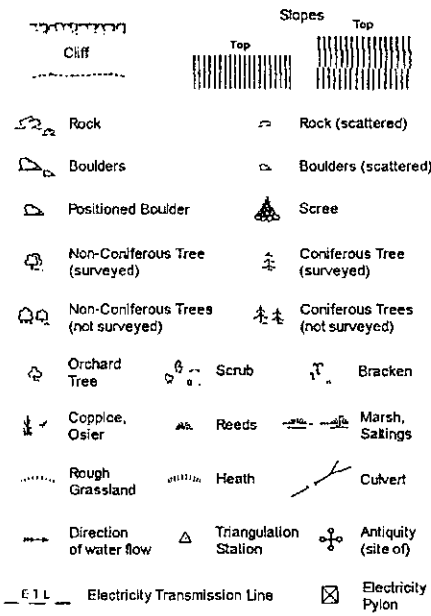
Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

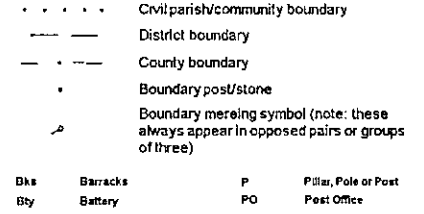




BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
E P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



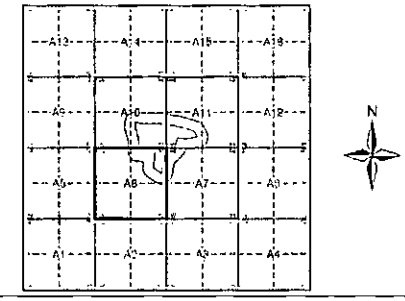


Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governor	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1892 - 1893	2
Yorkshire	1:2,500	1906	3
Yorkshire	1:2,500	1931	4
Ordnance Survey Plan	1:1,250	1959	5
Ordnance Survey Plan	1:2,500	1960	6
Ordnance Survey Plan	1:1,250	1965 - 1990	7
Additional SIMs	1:1,250	1965 - 1991	8
Ordnance Survey Plan	1:2,500	1969	9
Supply of Unpublished Survey Information	1:1,250	1975	10
Ordnance Survey Plan	1:1,250	1978	11
Additional SIMs	1:1,250	1982 - 1986	12
Additional SIMs	1:1,250	1987 - 1989	13
Additional SIMs	1:1,250	1989 - 1991	14
Large-Scale National Grid Data	1:1,250	1993	15
Large-Scale National Grid Data	1:1,250	1995	16
Large-Scale National Grid Data	1:1,250	1996	17

Historical Map - Segment A6



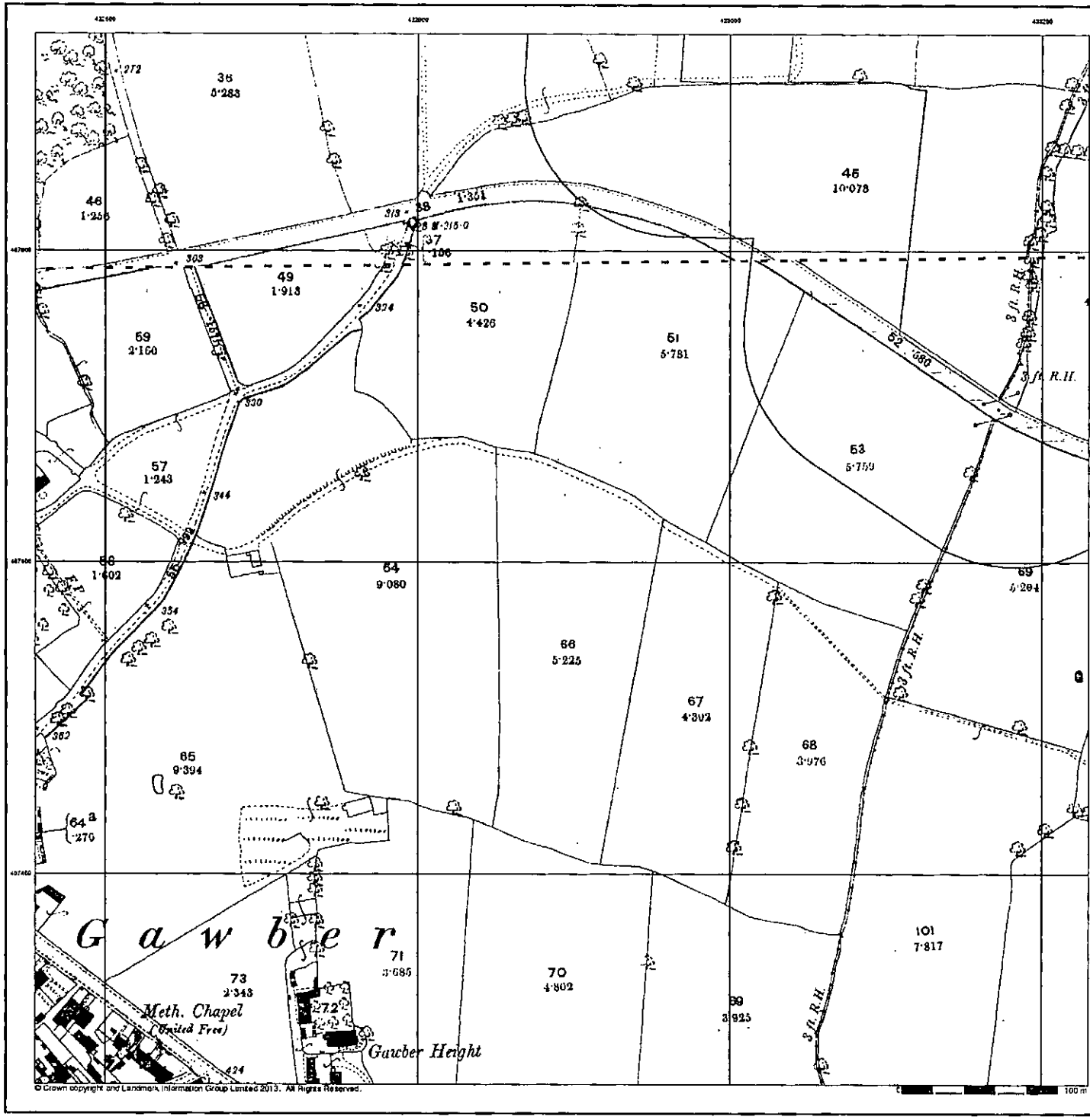
Order Details

Order Number: 51060043_1_1
Customer Ref: Wilthorpe Road, Barnsley
National Grid Reference: 433200, 407990
Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 100

Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN

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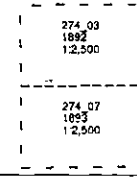
Yorkshire

Published 1892 - 1893

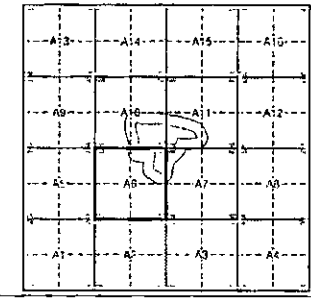
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1936, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

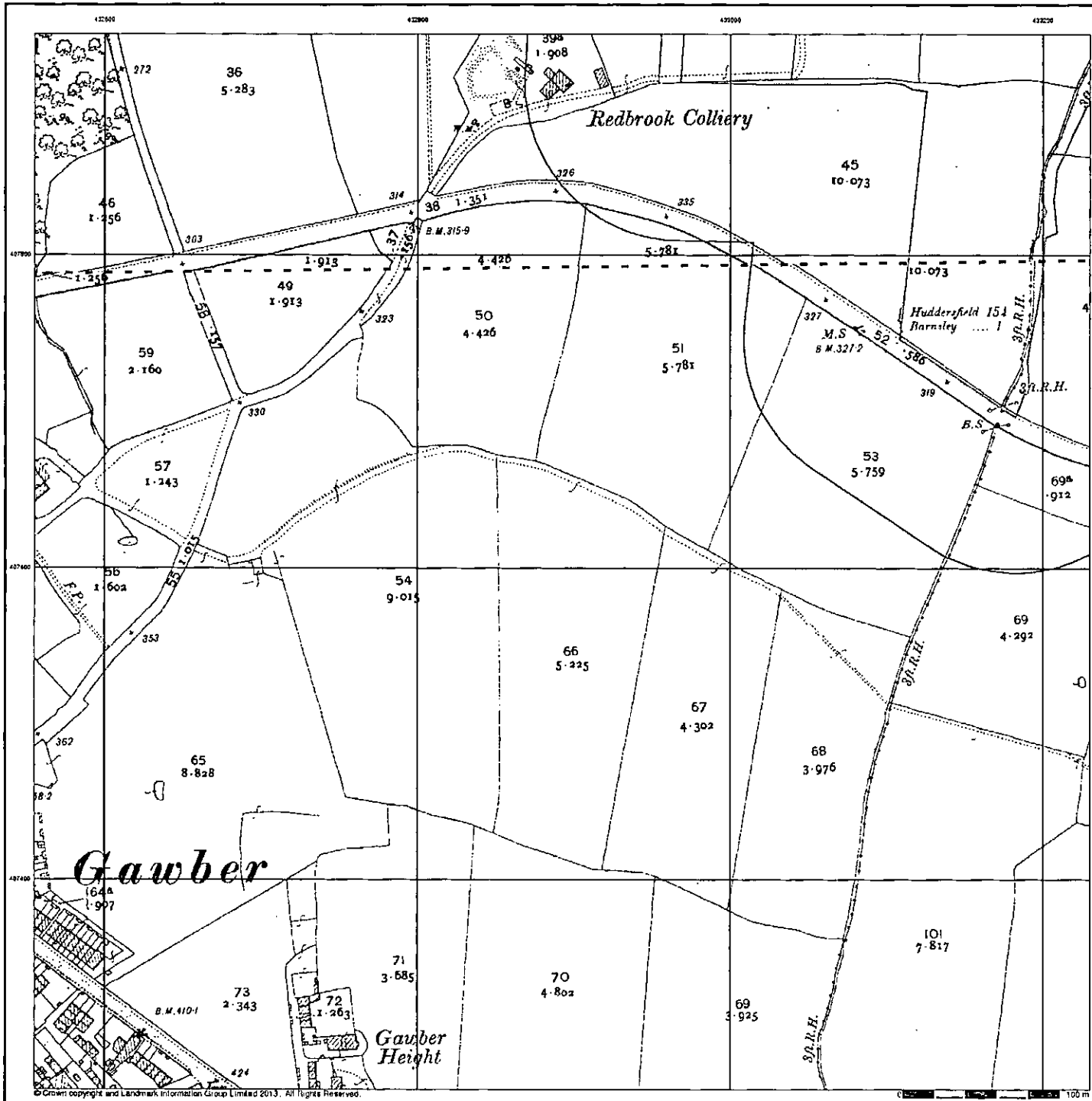
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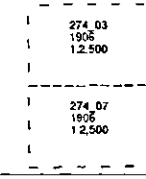
Yorkshire

Published 1906

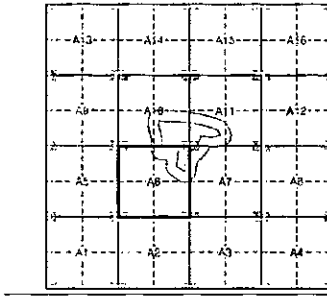
Source map scale - 1:2,500

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Historical Map - Segment A6



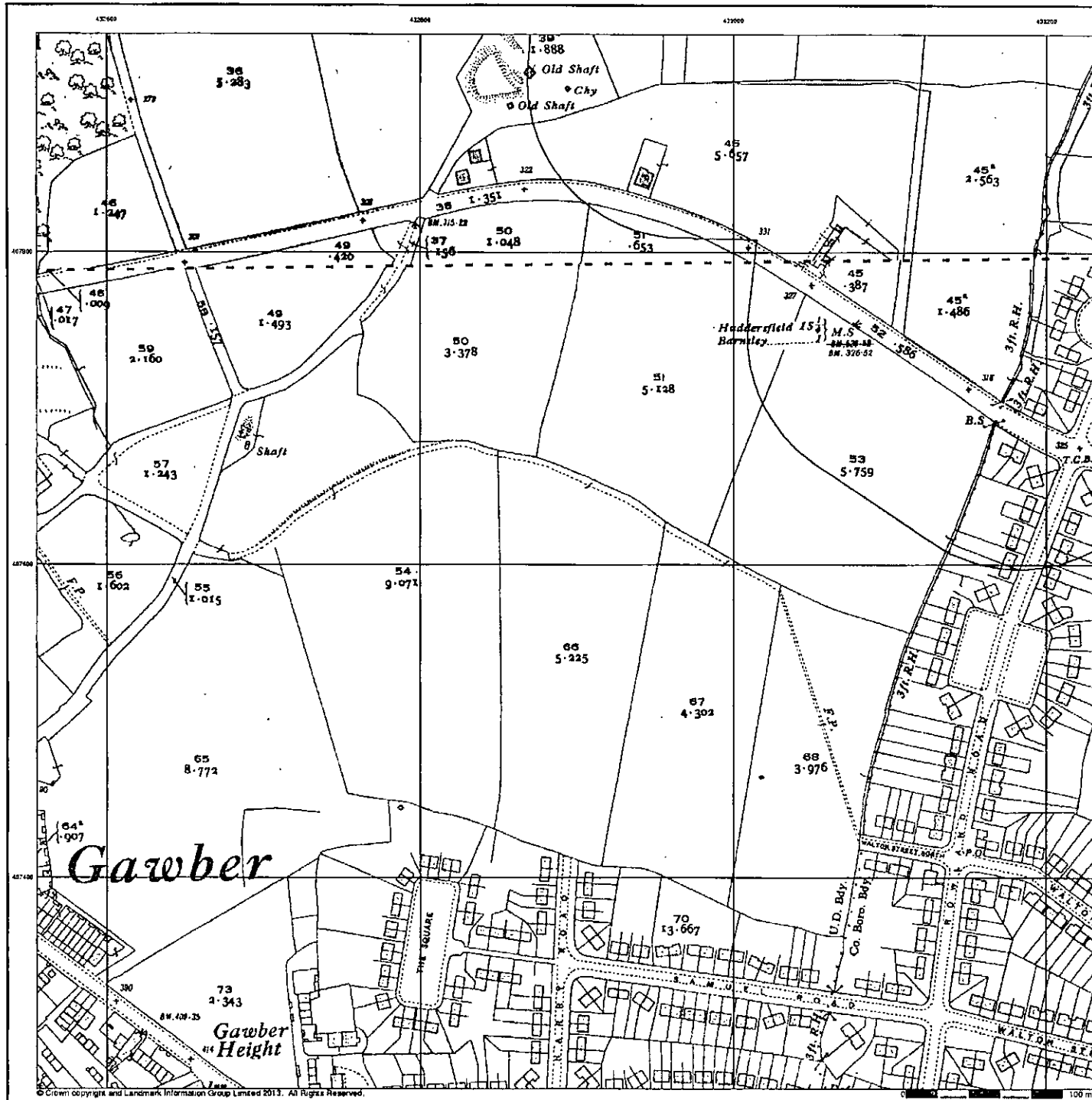
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Yorkshire
Published 1931
Source map scale - 1:2,500

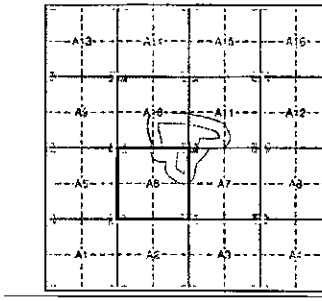
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

274_03
1931
1:2,500

274_07
1931
1:2,500

Historical Map - Segment A6



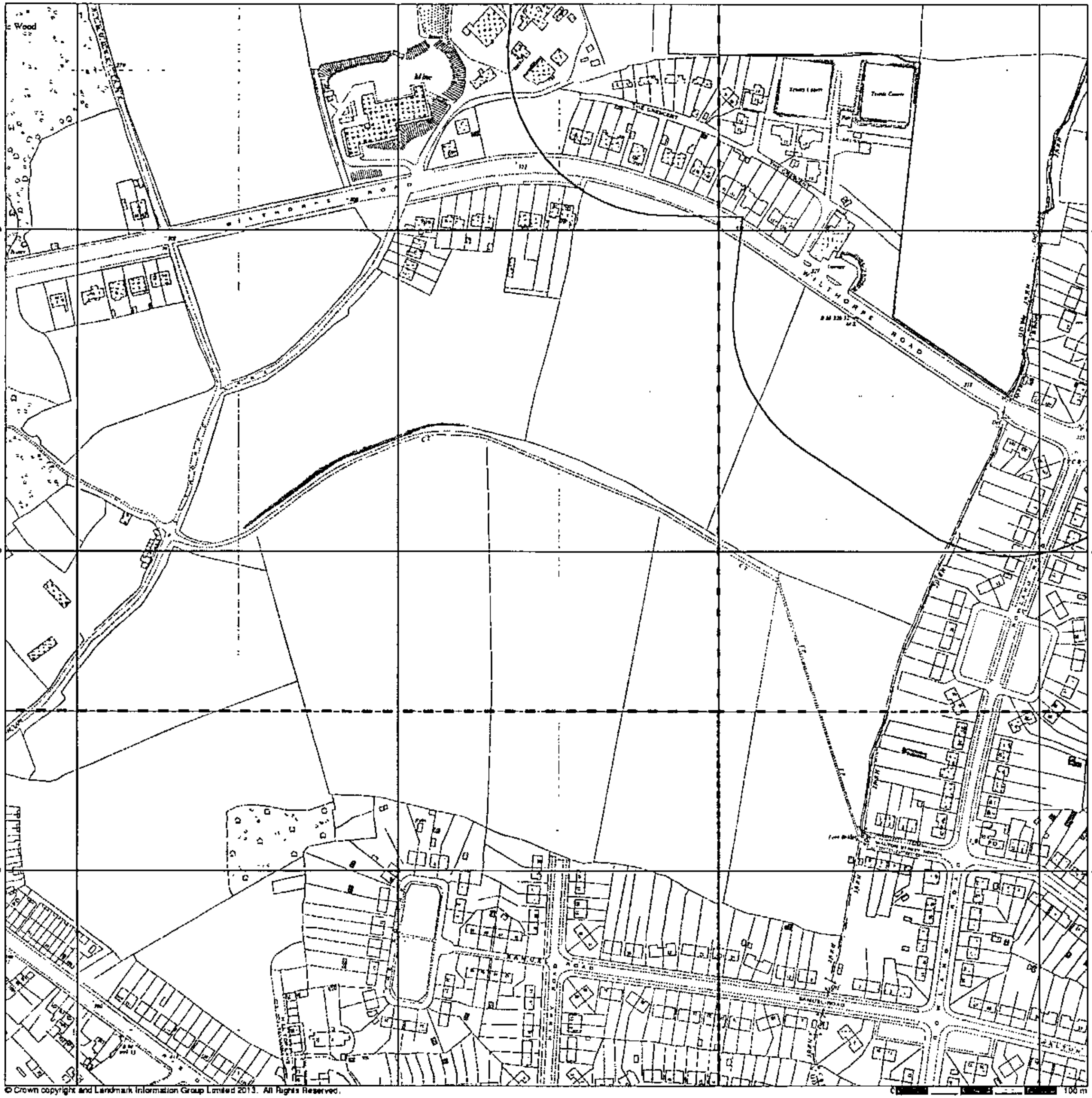
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Ordnance Survey Plan

Published 1959

Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE3207NE 1959 1:1,250	SE3307NW 1959 1:1,250
SE3207SE 1959 1:1,250	SE3307SW 1959 1:1,250

Historical Map - Segment A6

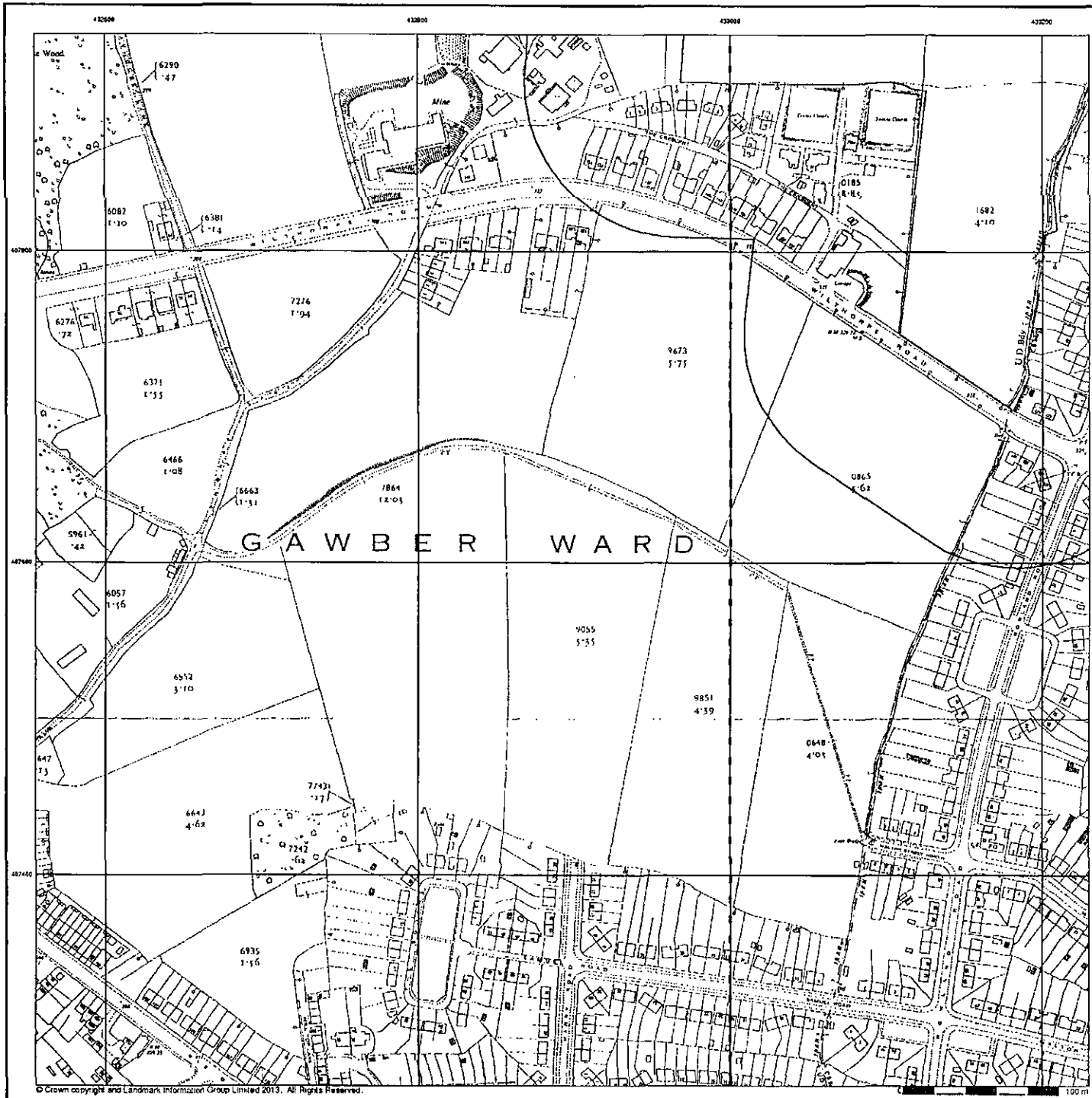
Order Details

Order Number: 51060043_1_1
Customer Ref: Wilthorpe Road, Barnsley
National Grid Reference: 433200, 407990
Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 100

Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN

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Fax: 0844 844 9951
Web: www.envirocheck.co.uk

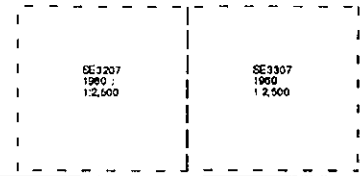


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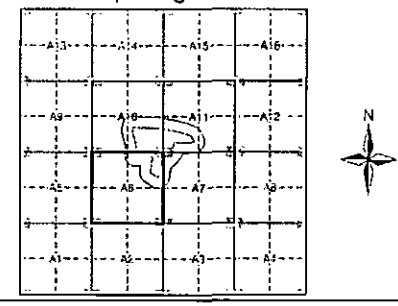
Ordnance Survey Plan
Published 1960
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

Order Number:	51060043_1_1
Customer Ref:	Willthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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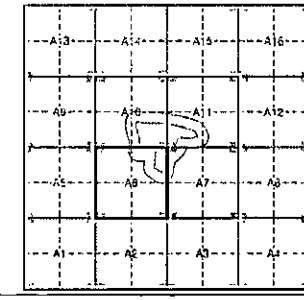
Ordnance Survey Plan
Published 1965 - 1990
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE3207NE 1990 1:1,250	SE3307NW 1978 1:1,250
SE3207SE 1965 1:1,250	SE3307SW 1965 1:1,250

Historical Map - Segment A6



Order Details

Order Number:	51060043_1_1
Customer Ref:	Willthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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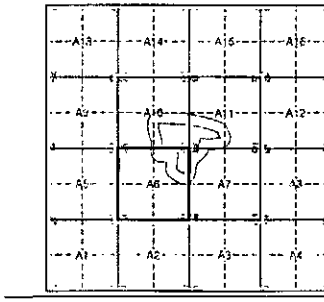
Additional SIMs
Published 1965 - 1991
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's "Survey of Information on Microfilm") are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3207NE 1984 1:1,250	SE3307NW 1991 1:1,250
SE3207SE 1965 1:1,250	SE3307SW 1991 1:1,250

Historical Map - Segment A6



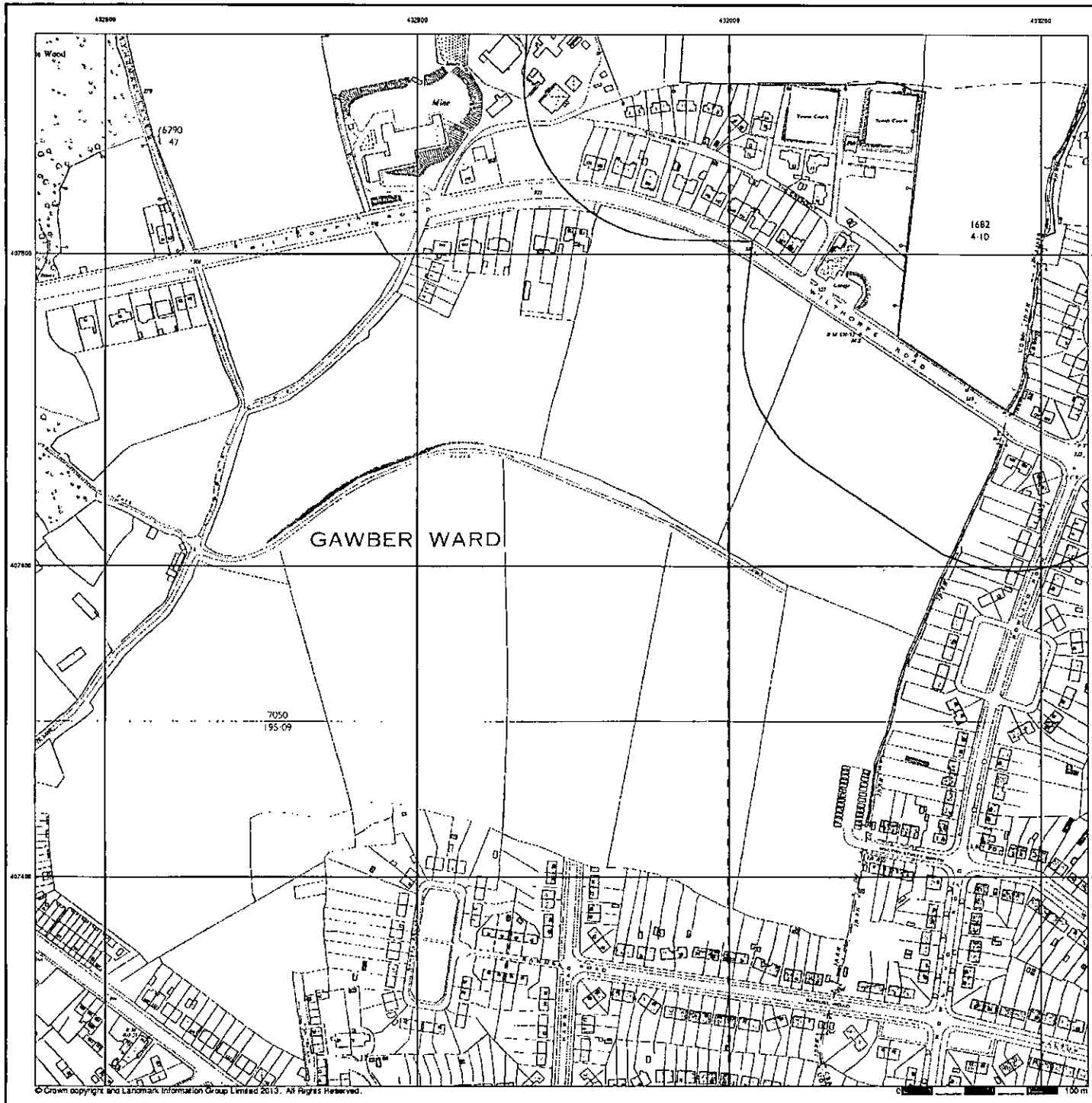
Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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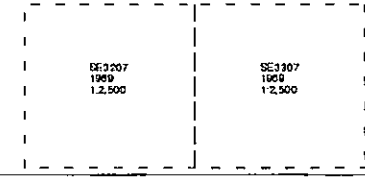


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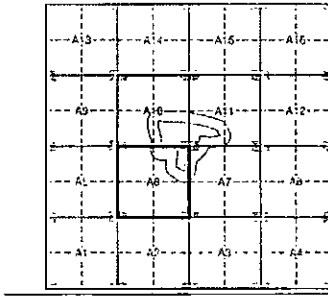
Ordnance Survey Plan
Published 1969
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1936, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A6



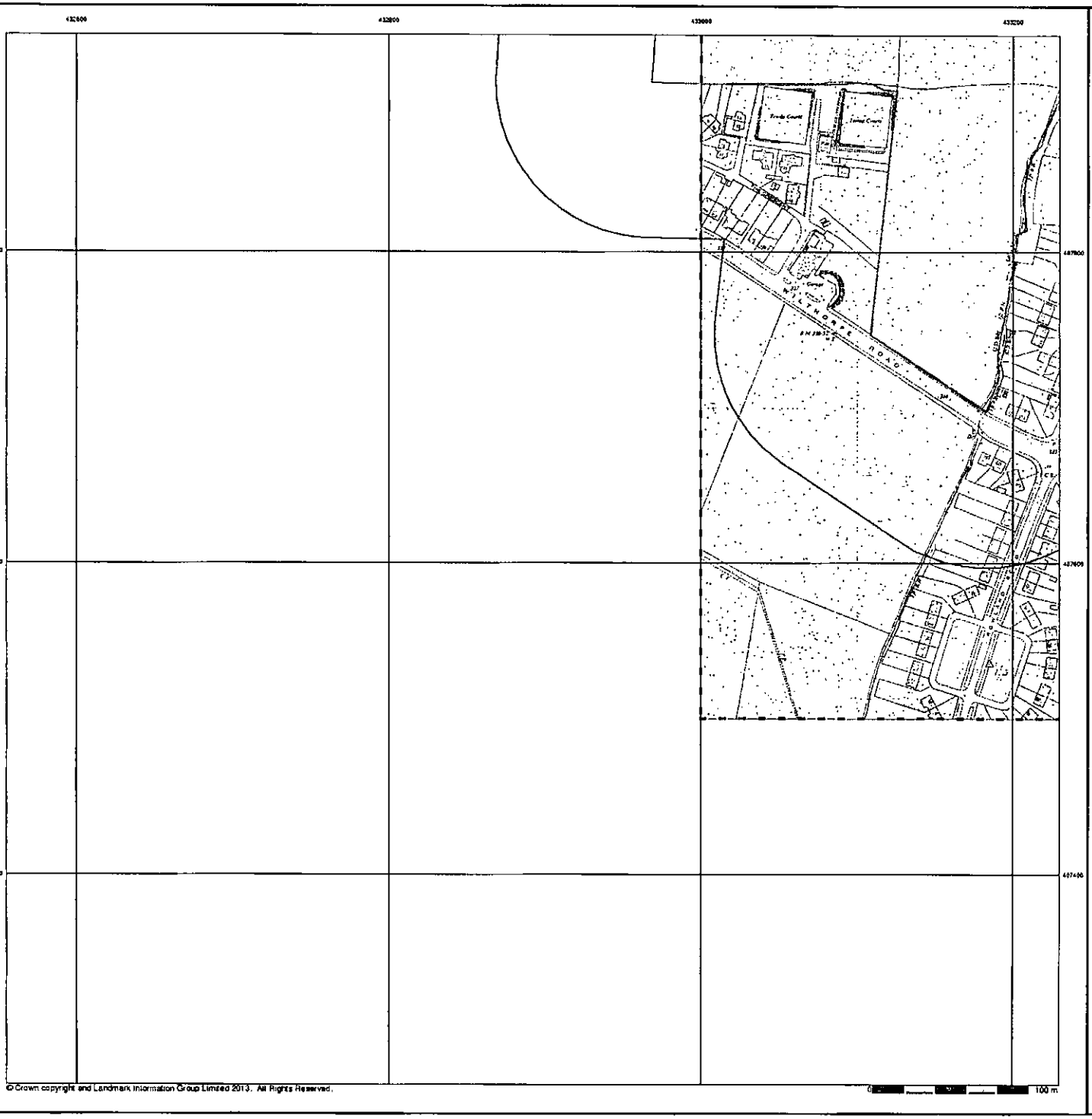
Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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Supply of Unpublished Survey Information

Published 1975

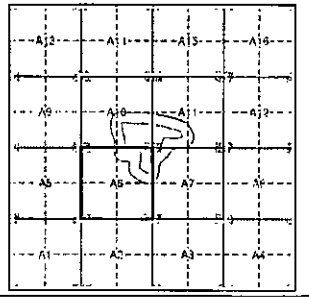
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



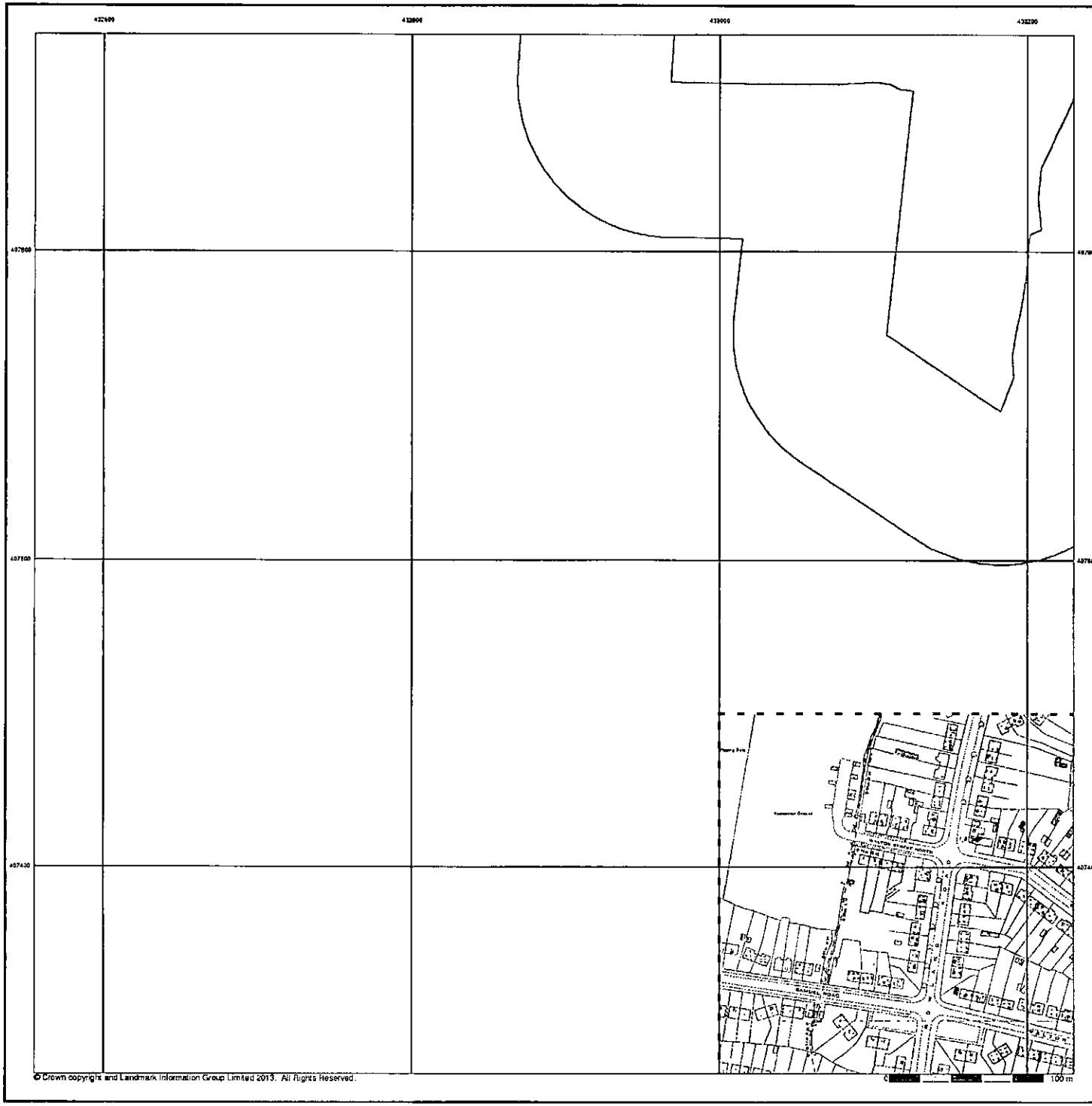
Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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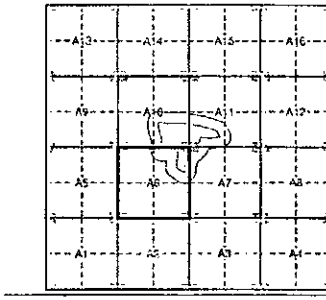
Ordnance Survey Plan
Published 1978
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE3307SW
1978
1:1,250

Historical Map - Segment A6



Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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Additional SIMs
Published 1982 - 1986
Source map scale - 1:1,250

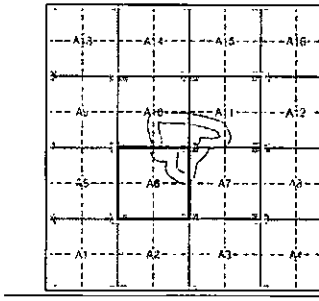
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3207NE
1985
1:1,250

SE3207SE
1982
1:1,250

Historical Map - Segment A6



Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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Additional SIMs
Published 1987 - 1989
Source map scale - 1:1,250

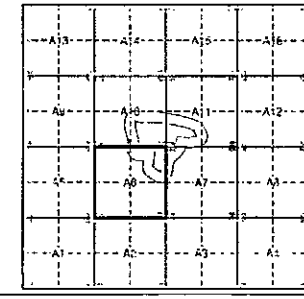
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3207NE
1987
1:1,250

SE3207SE
1989
1:1,250

Historical Map - Segment A6



Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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Additional SIMs

Published 1989 - 1991

Source map scale - 1:1,250

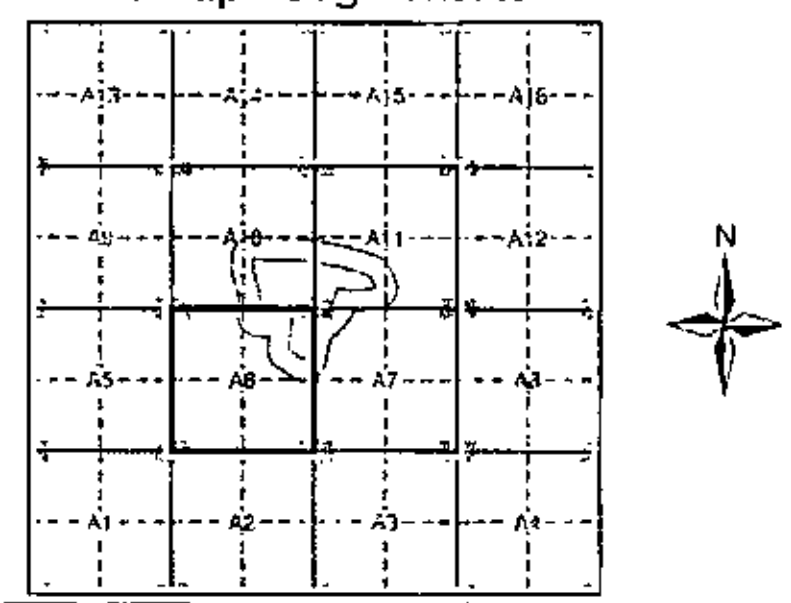
The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3207NE
1989
1:1,250

SE3207SE
1991
1:1,250

Historical Map - Segment A6



Order Details

Order Number: 51060043_1_1
Customer Ref: Wilthorpe Road, Barnsley
National Grid Reference: 433200, 407990
Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993

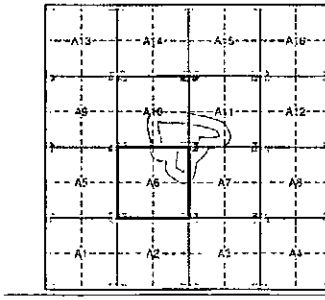
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3207NE 1993 1:1,250	SE3307NW 1993 1:1,250
SE3207SE 1993 1:1,250	SE3307SW 1993 1:1,250

Historical Map - Segment A6



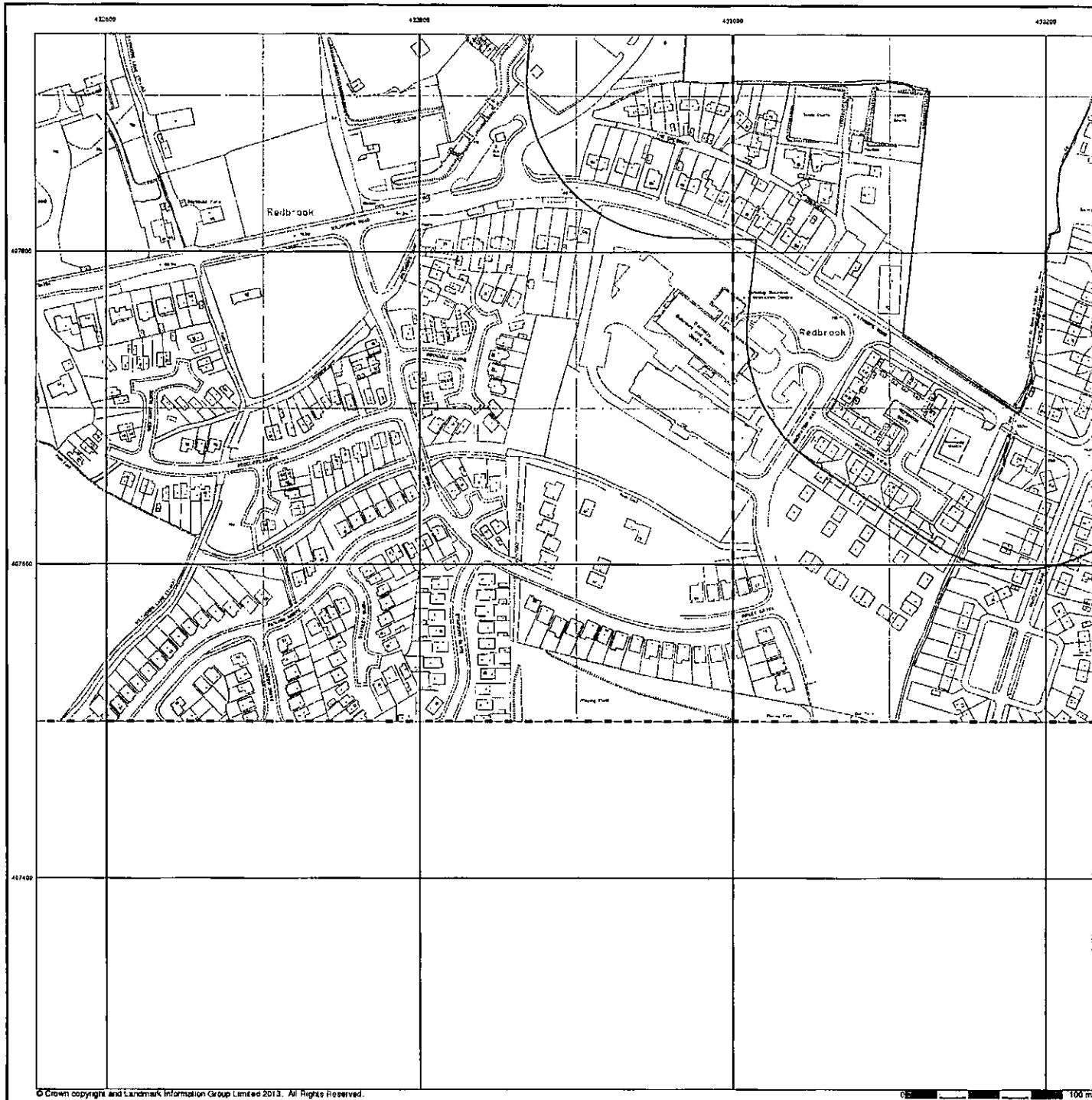
Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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Large-Scale National Grid Data

Published 1995

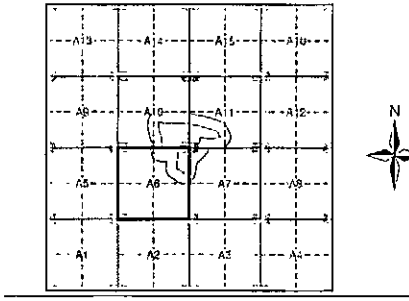
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3207NE	SE3307NW
1995	1995
1:1,250	1:1,250

Historical Map - Segment A6



Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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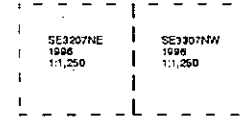


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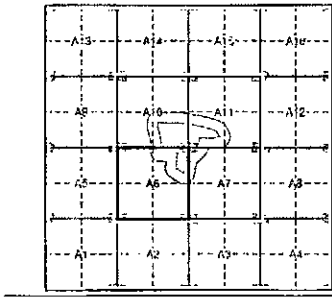
Large-Scale National Grid Data
Published 1996
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
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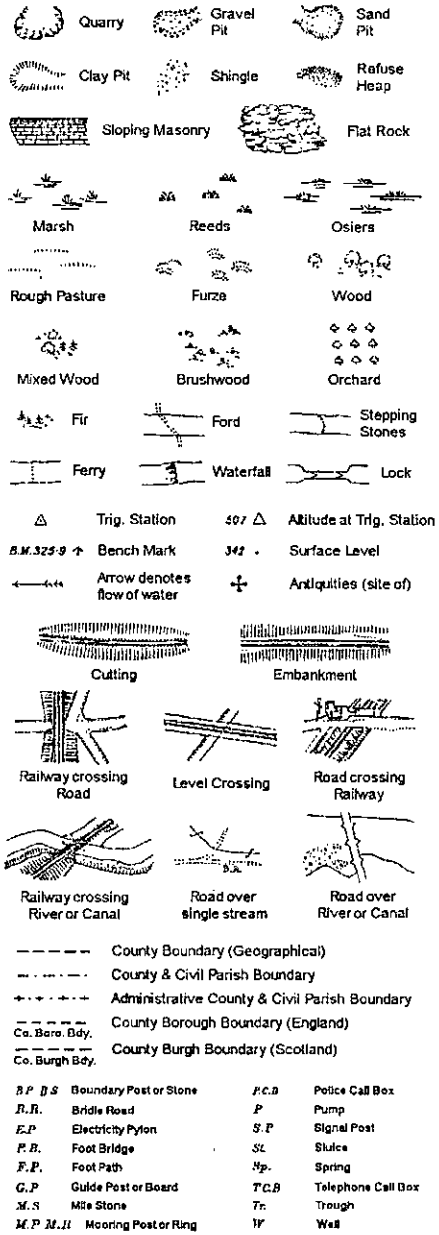
Site Details

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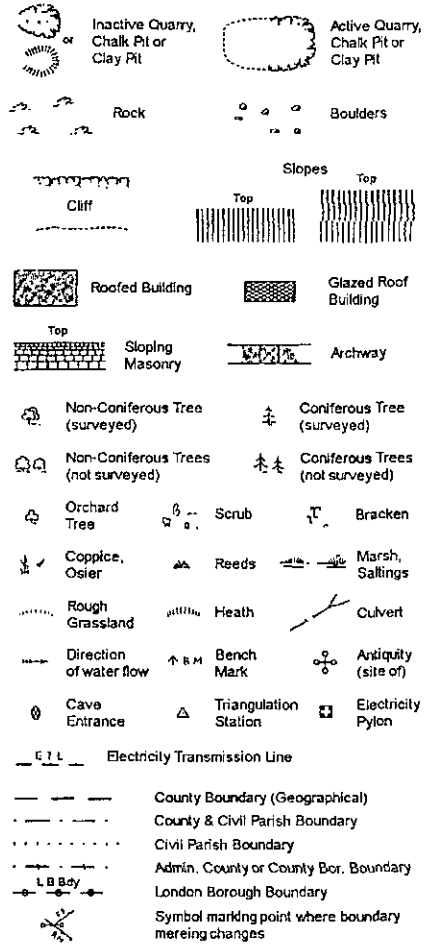
Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



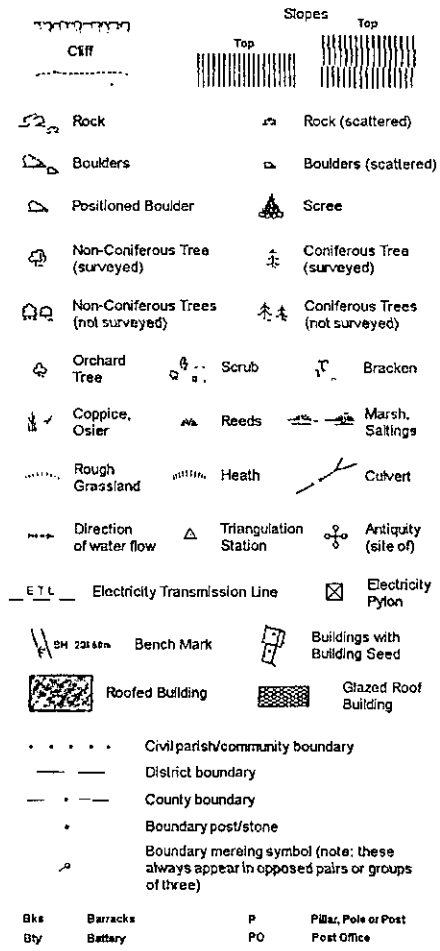
B.P. B.S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



BH	Bear House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
EIP	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250

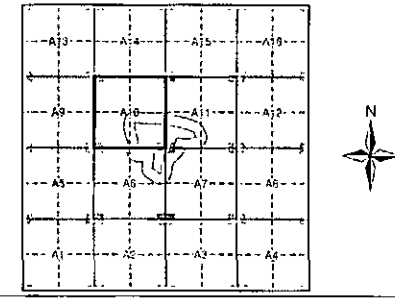


Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
EIP	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governor	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1892	2
Yorkshire	1:2,500	1906	3
Yorkshire	1:2,500	1931	4
Ordnance Survey Plan	1:1,250	1959	5
Ordnance Survey Plan	1:2,500	1960 - 1962	6
Ordnance Survey Plan	1:2,500	1969	7
Supply of Unpublished Survey Information	1:1,250	1975	8
Ordnance Survey Plan	1:1,250	1978 - 1990	9
Additional SIMs	1:2,500	1978	10
Additional SIMs	1:1,250	1984 - 1991	11
Additional SIMs	1:2,500	1986	12
Additional SIMs	1:1,250	1986	13
Additional SIMs	1:2,500	1987	14
Additional SIMs	1:1,250	1987	15
Additional SIMs	1:1,250	1989	16
Additional SIMs	1:2,500	1991	17
Large-Scale National Grid Data	1:2,500	1993	18
Large-Scale National Grid Data	1:1,250	1993	19
Large-Scale National Grid Data	1:1,250	1995	20
Large-Scale National Grid Data	1:1,250	1996	21

Historical Map - Segment A10



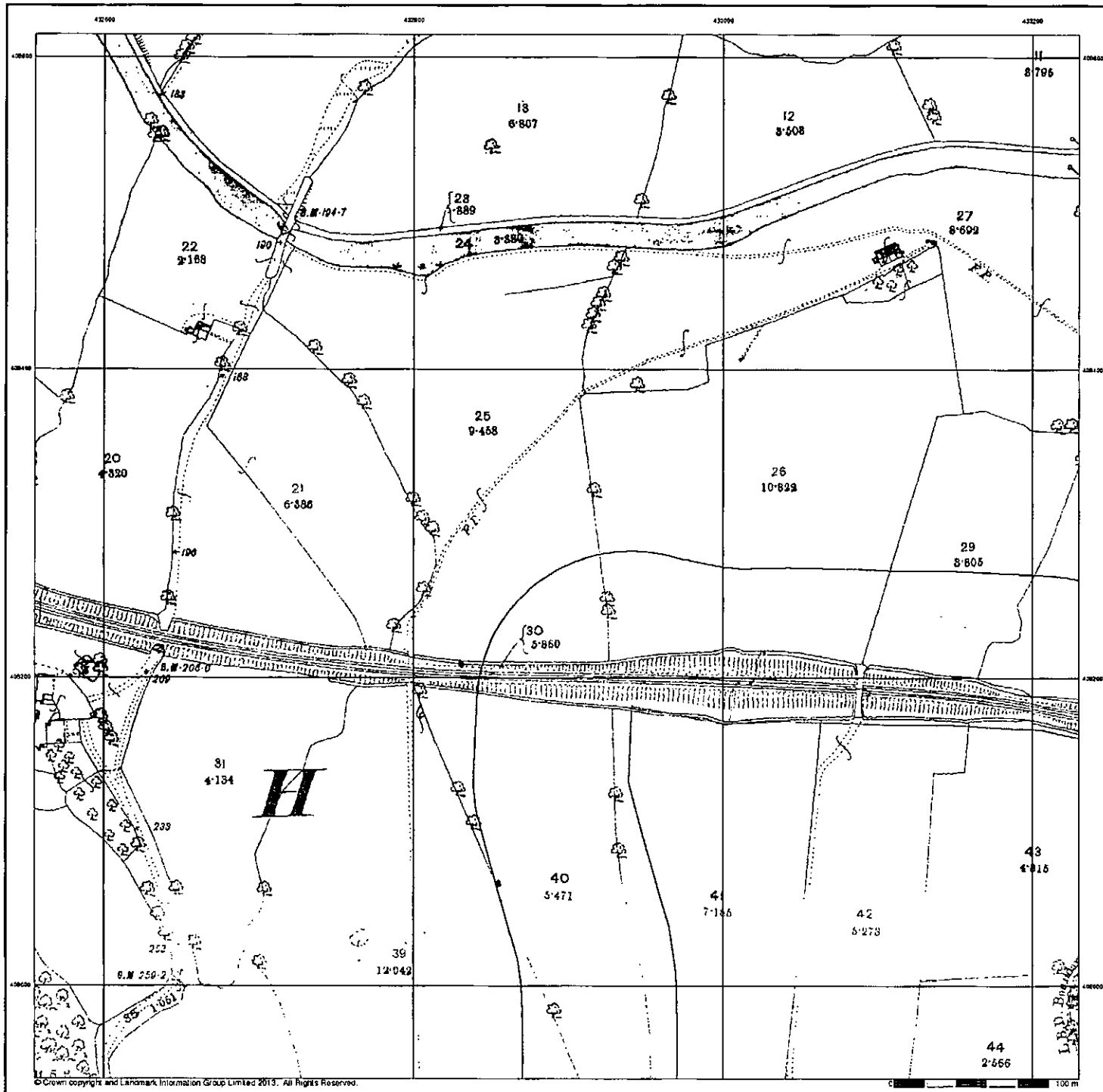
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Order Number: 51060043_1_1
Customer Ref: Wilthorpe Road, Barnsley
National Grid Reference: 433200, 407990
Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 100

Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN

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Yorkshire

Published 1892

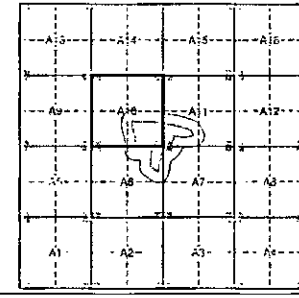
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A10



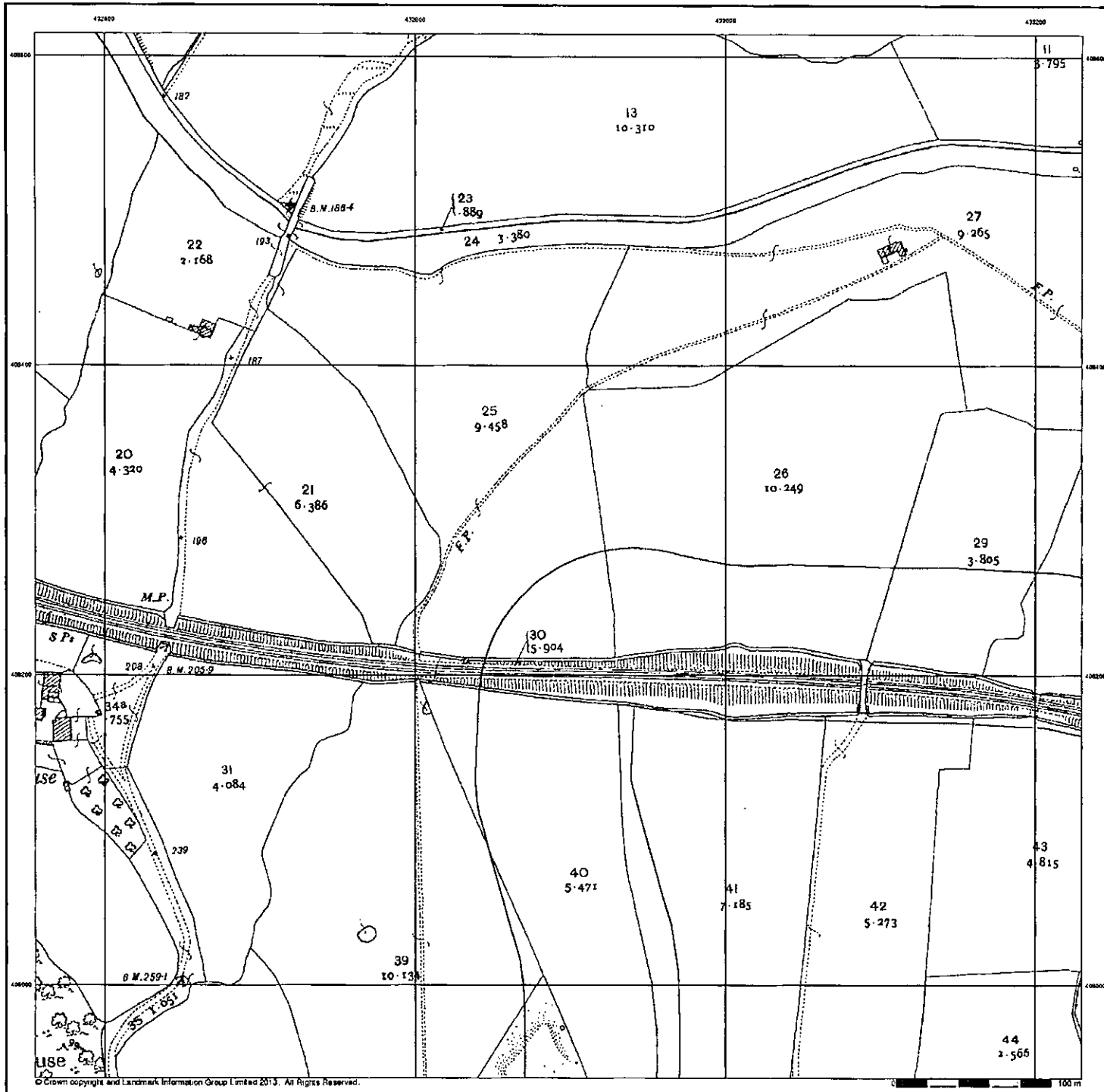
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National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
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Yorkshire

Published 1906

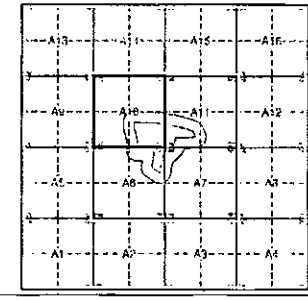
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A10



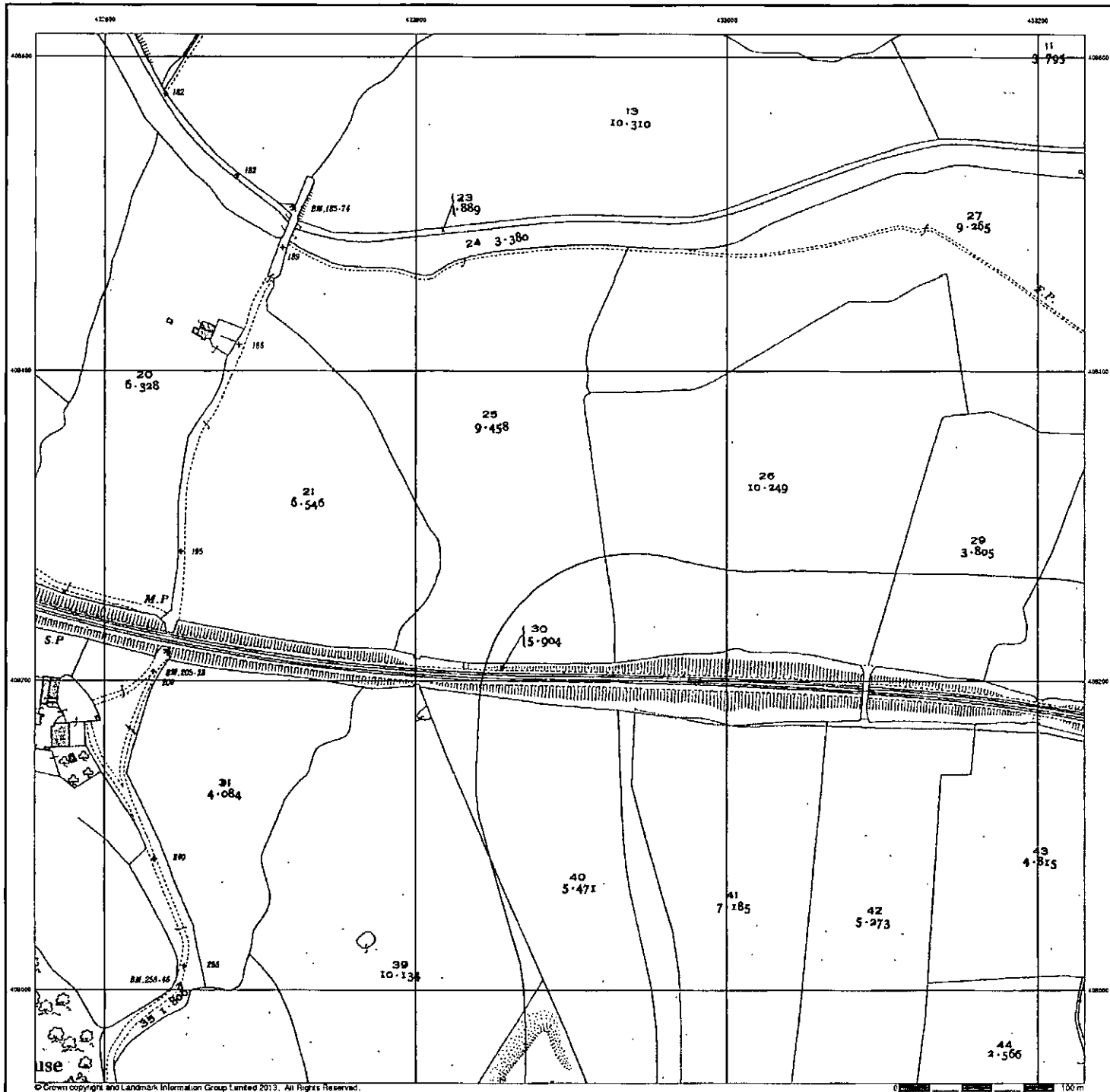
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Slice:	A
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0 100 m

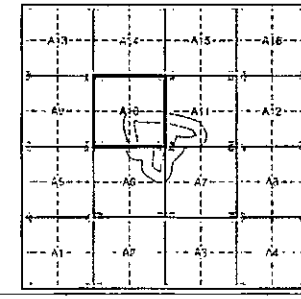
Yorkshire
Published 1931
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A10



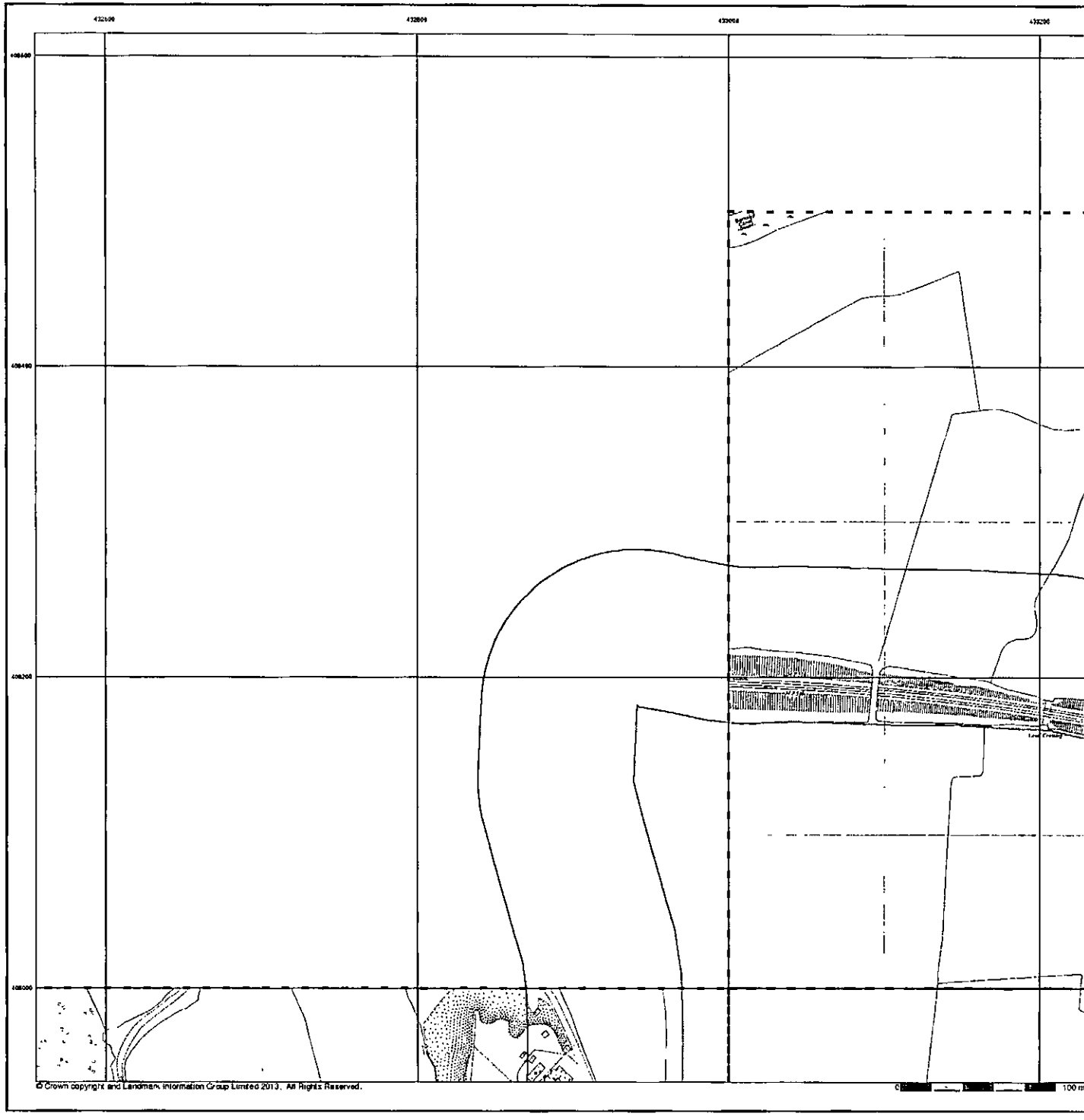
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National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

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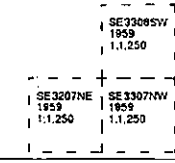


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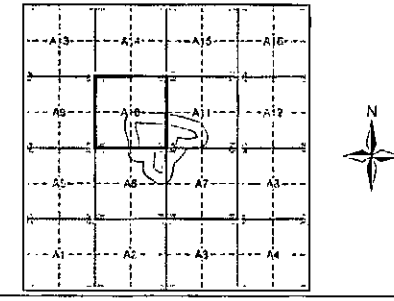
Ordnance Survey Plan
Published 1959
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

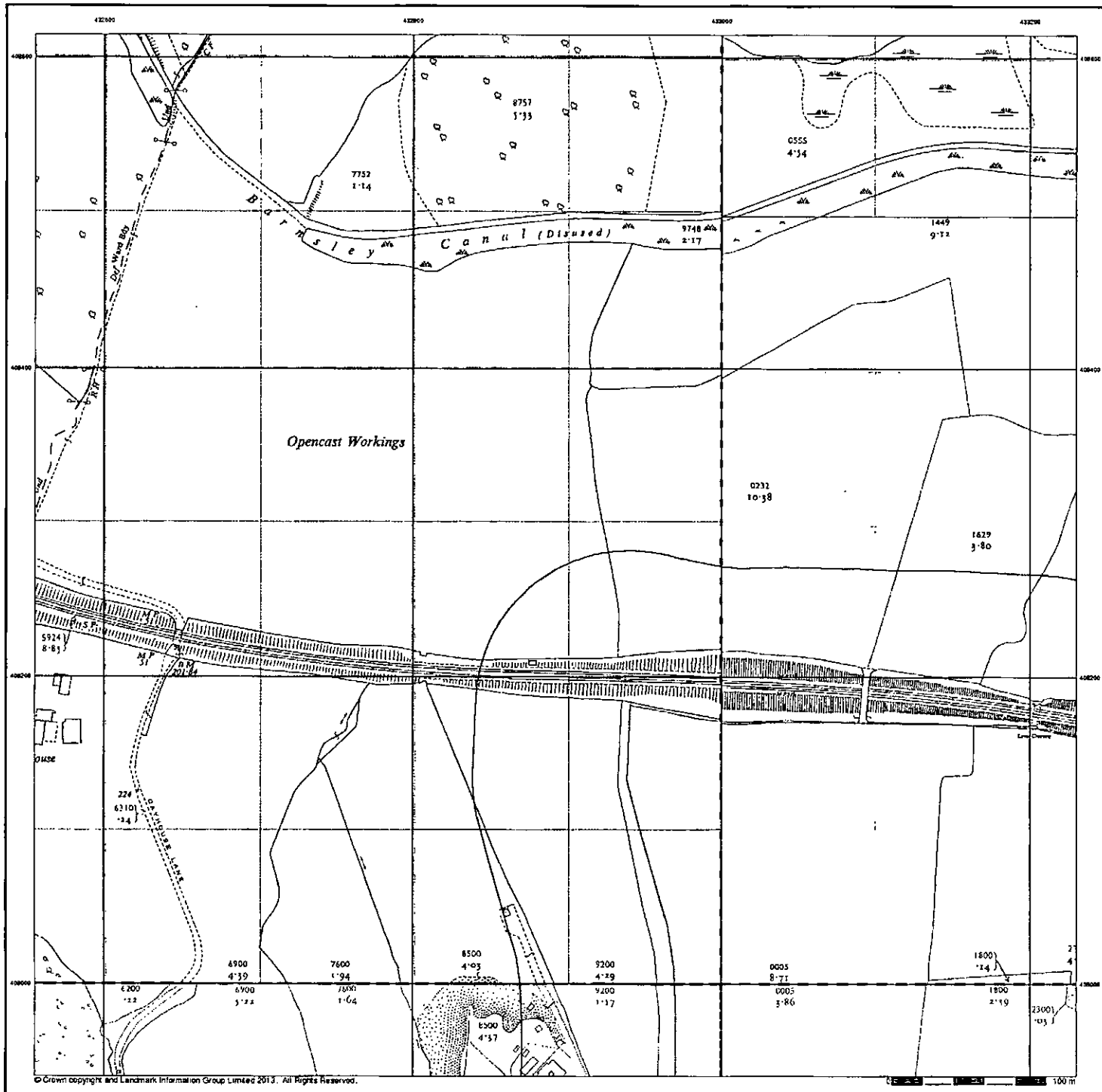
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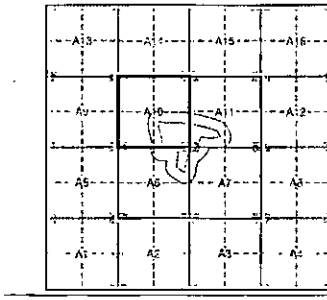
Ordnance Survey Plan
Published 1960 - 1962
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE3208 1962 1:2,500	SE3308 1962 1:2,500
SE3207 1960 1:2,500	SE3307 1960 1:2,500

Historical Map - Segment A10



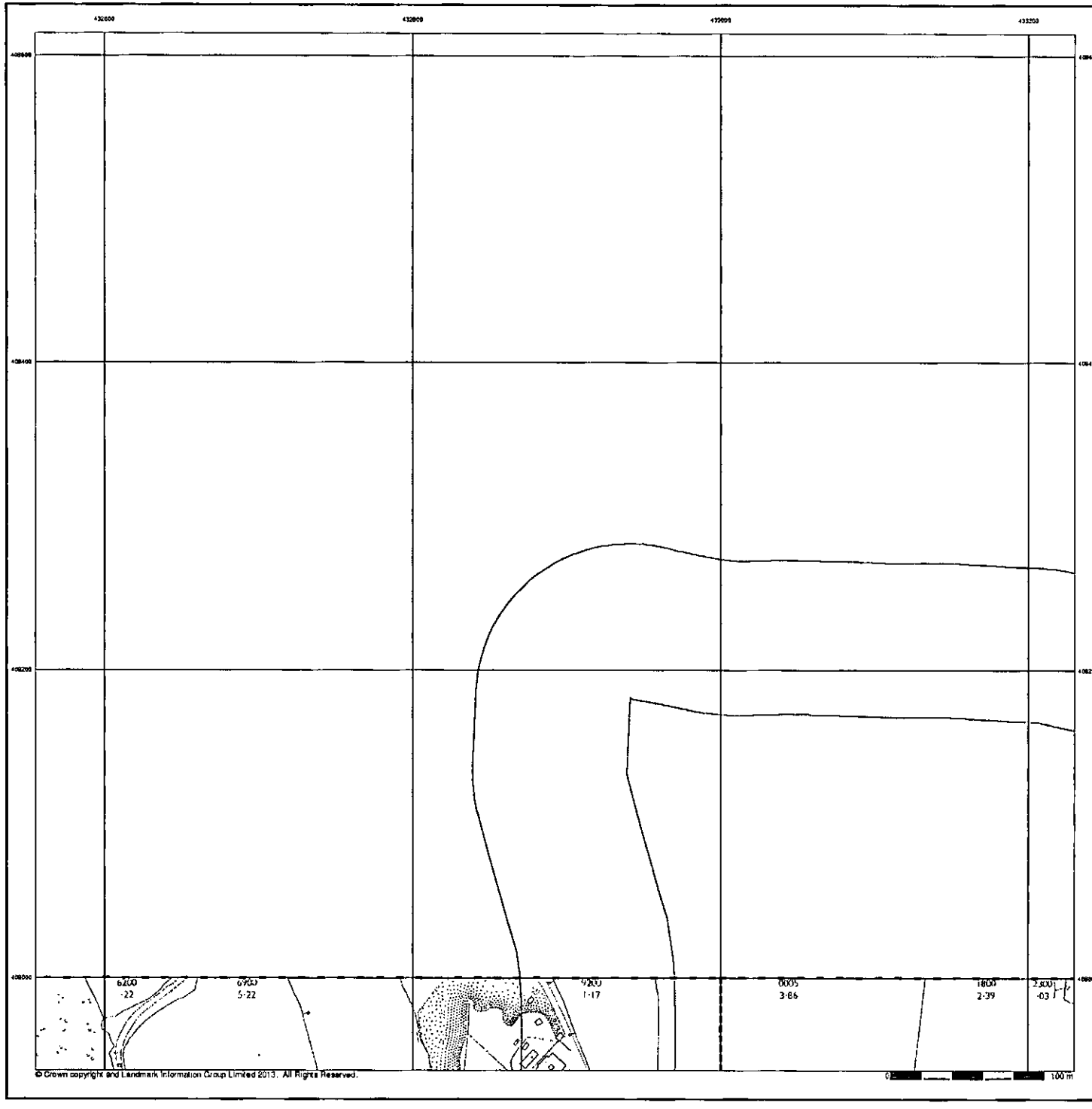
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National Grid Reference:	433200, 407990
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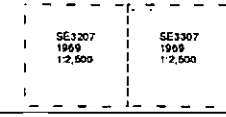


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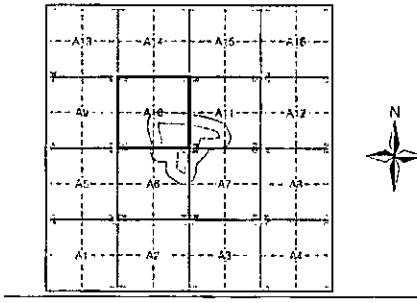
Ordnance Survey Plan
Published 1969
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A10



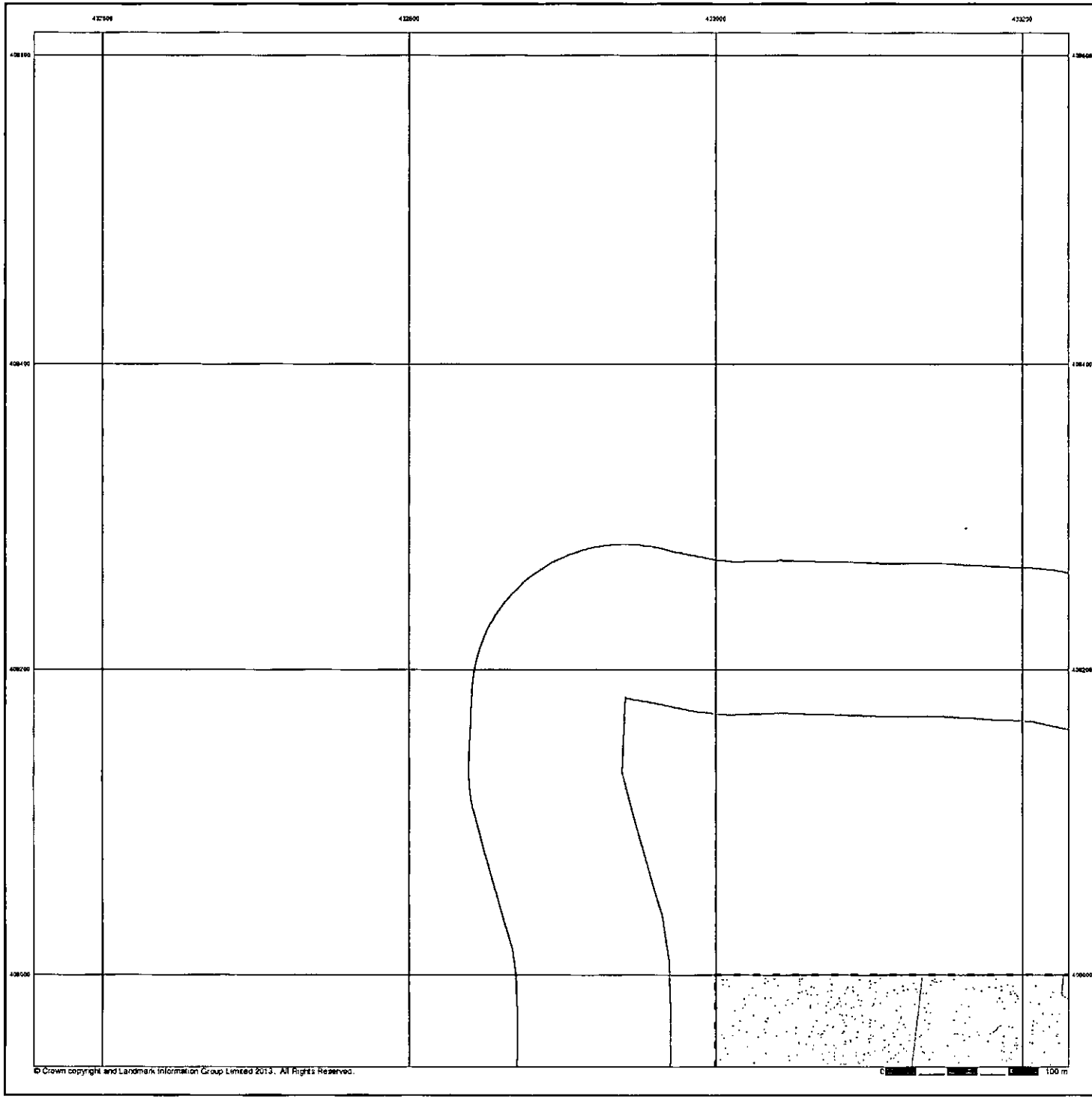
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Customer Ref:	Willthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
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Site Details

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Supply of Unpublished Survey Information

Published 1975

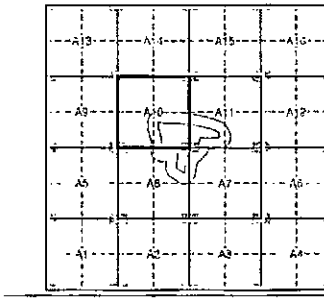
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



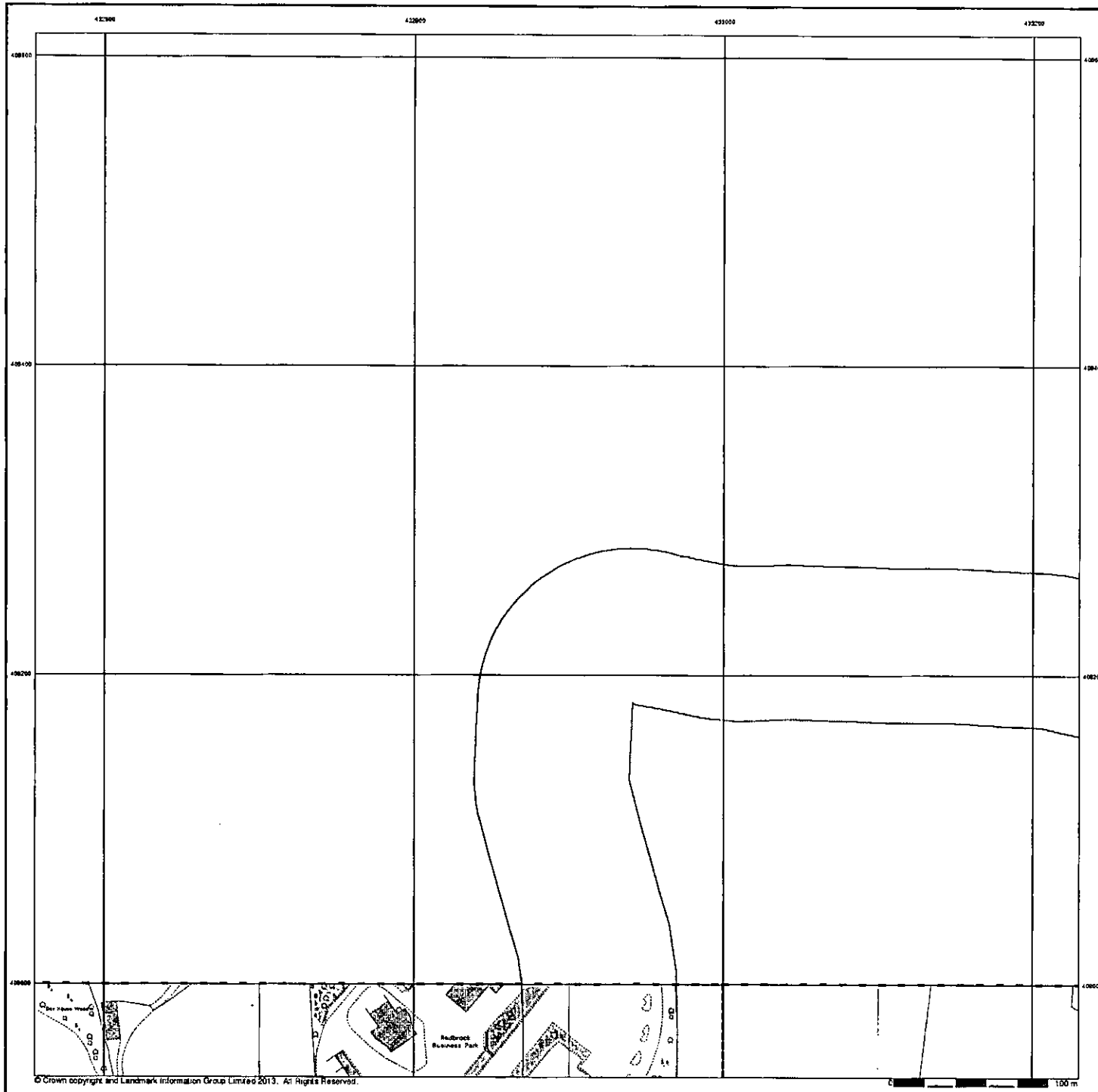
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National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
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Site Details

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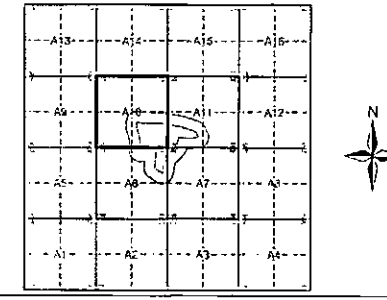
Ordnance Survey Plan
Published 1978 - 1990
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE3207NE	SE3307NW
1990	1978
1:1,250	1:1,250

Historical Map - Segment A10



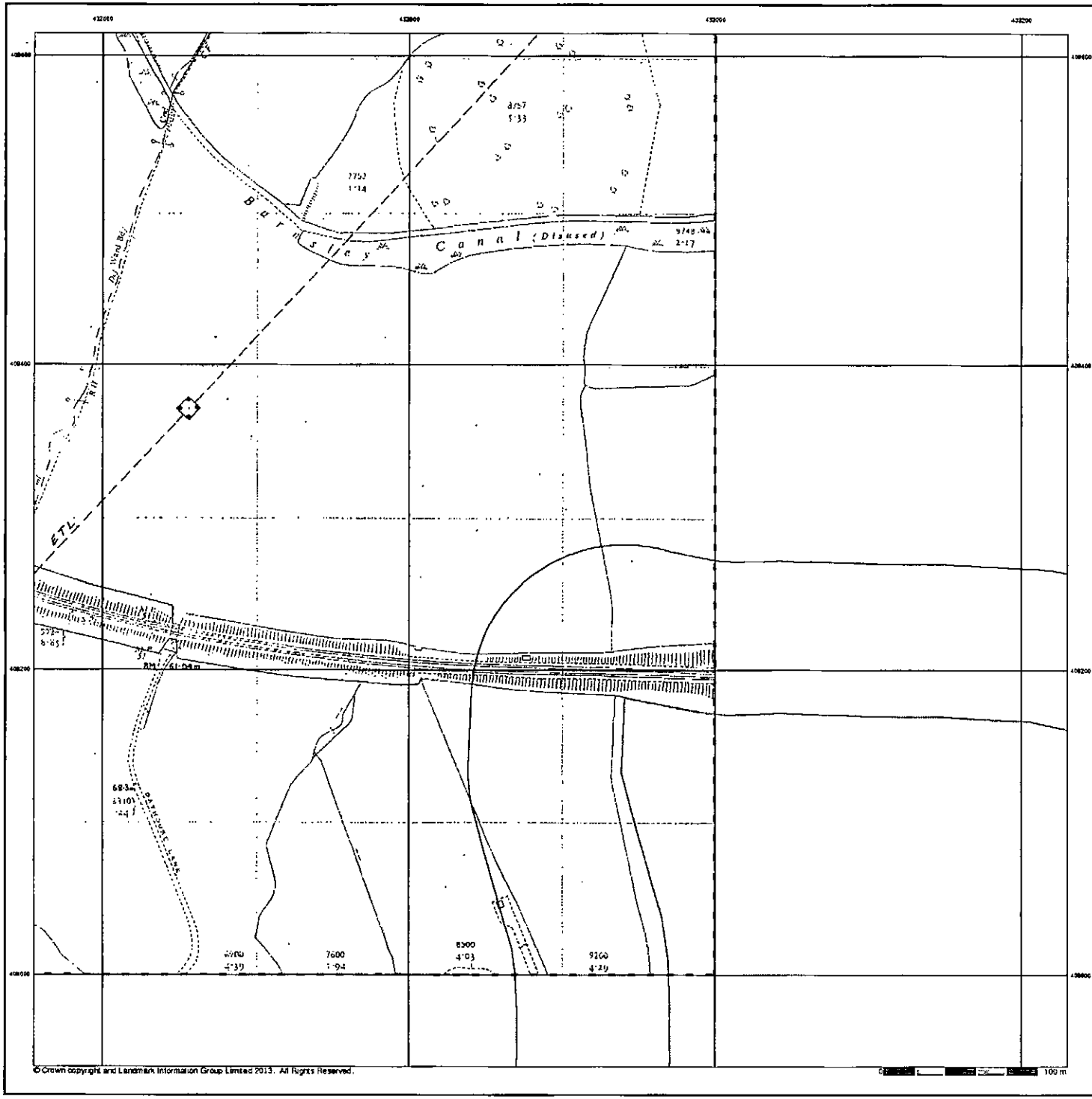
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Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
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Search Buffer (m):	100

Site Details

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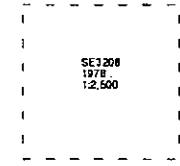


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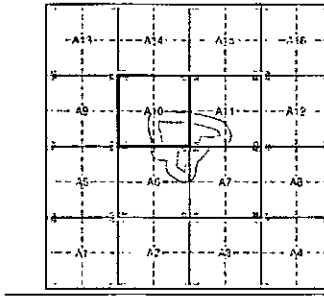
Additional SIMs
Published 1978
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10

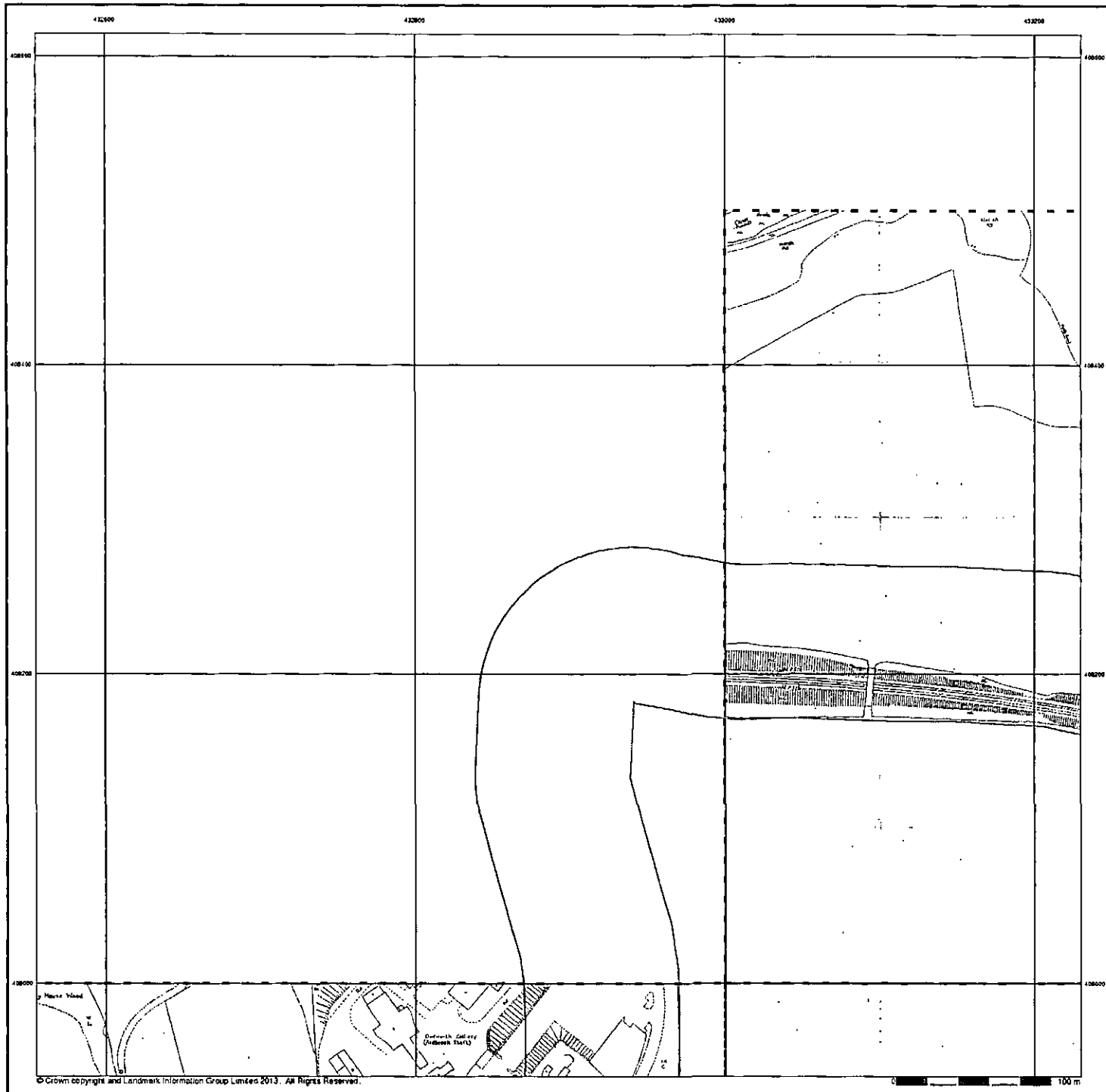


Order Details

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Search Buffer (m):	100

Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN

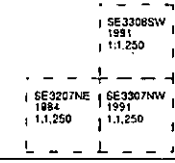


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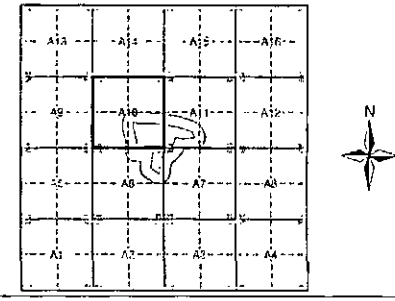
Additional SIMs
Published 1984 - 1991
Source map scale - 1:1,250

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Map Name(s) and Date(s)



Historical Map - Segment A10



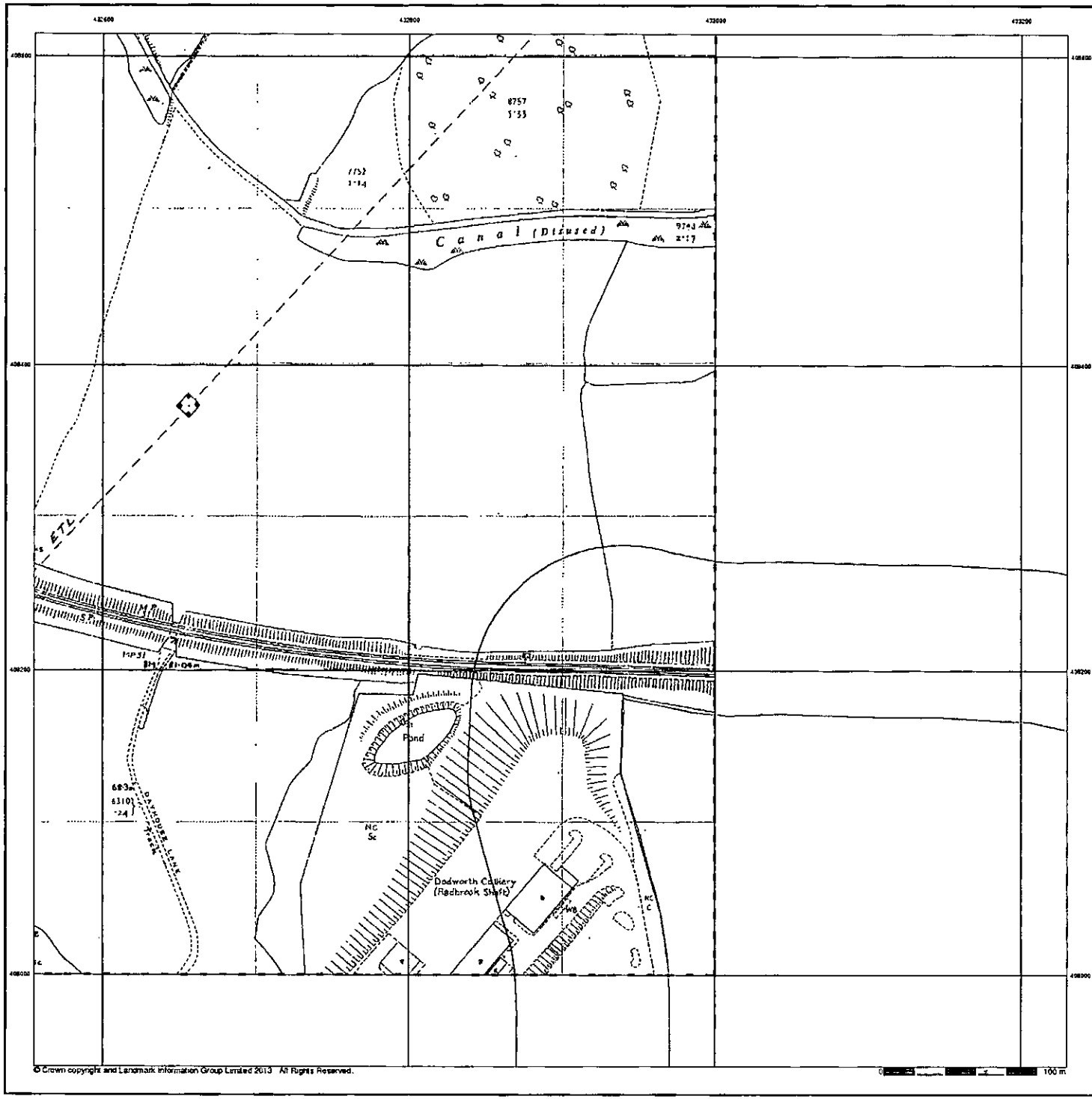
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National Grid Reference:	433200, 407990
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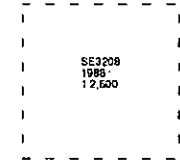


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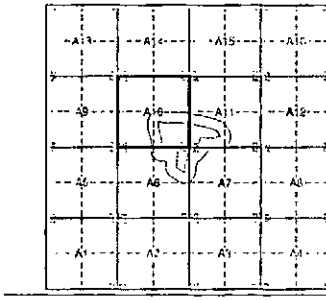
Additional SIMs
Published 1986
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's "Survey of Information on Microfilm") are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



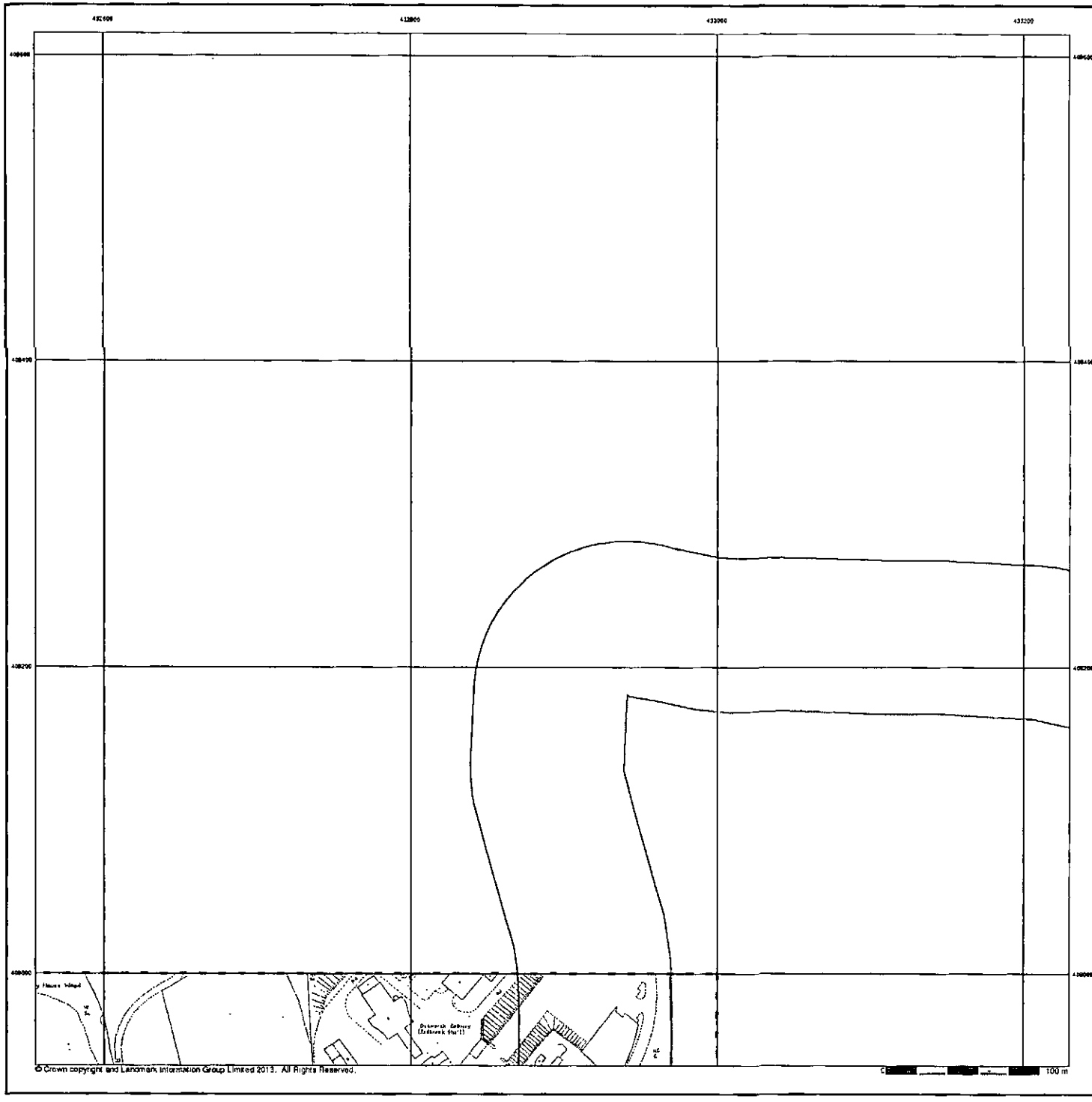
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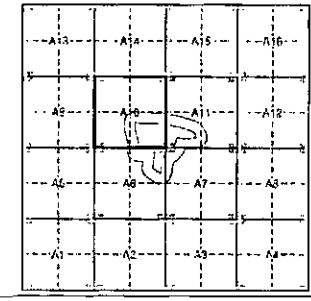
Additional SIMs
Published 1986
Source map scale - 1:1,250

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Map Name(s) and Date(s)

SE3207NE
1986
1:1,250

Historical Map - Segment A10



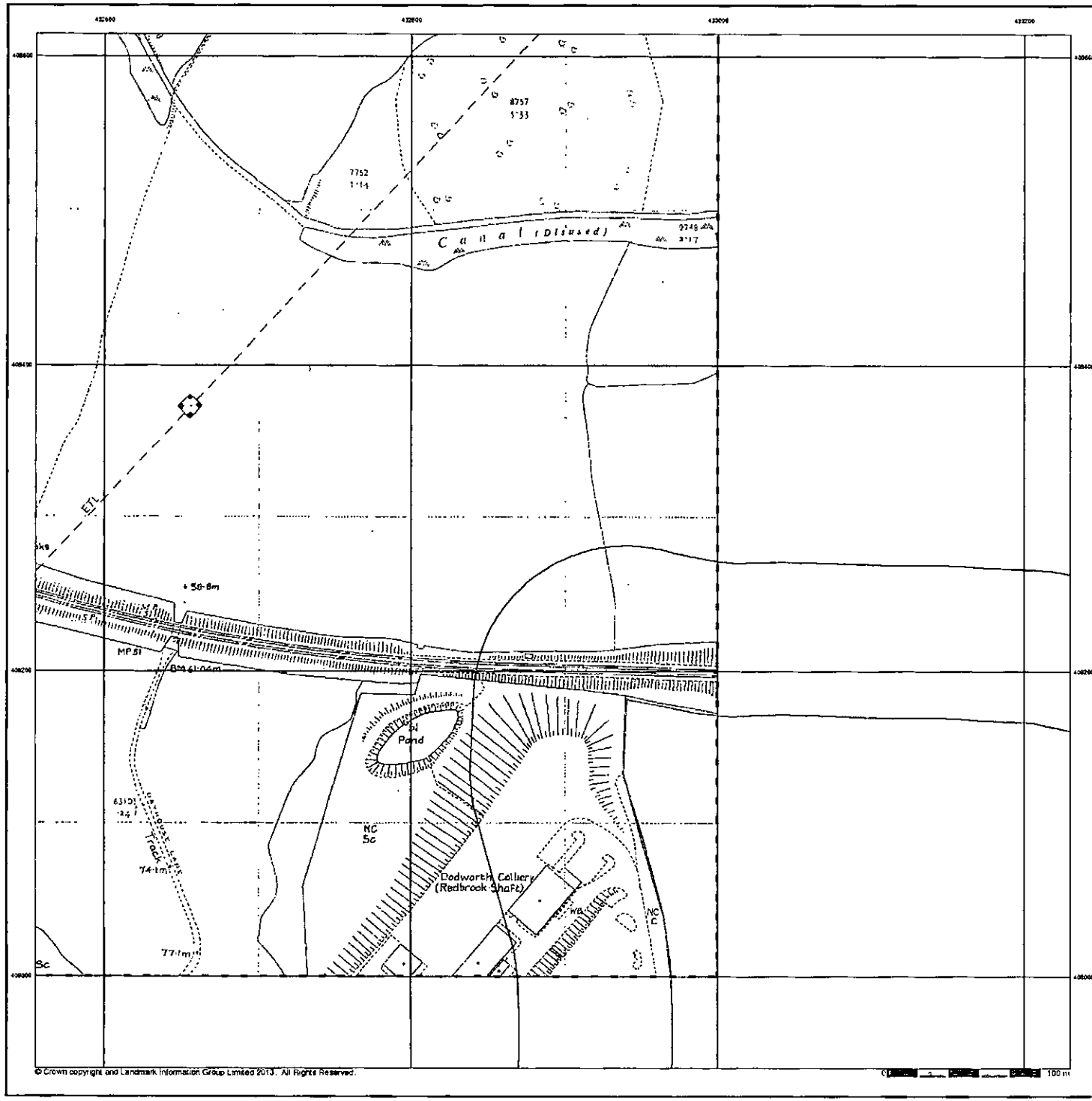
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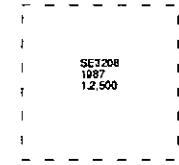


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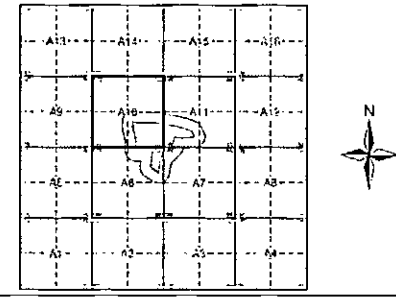
Additional SIMs
Published 1987
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10

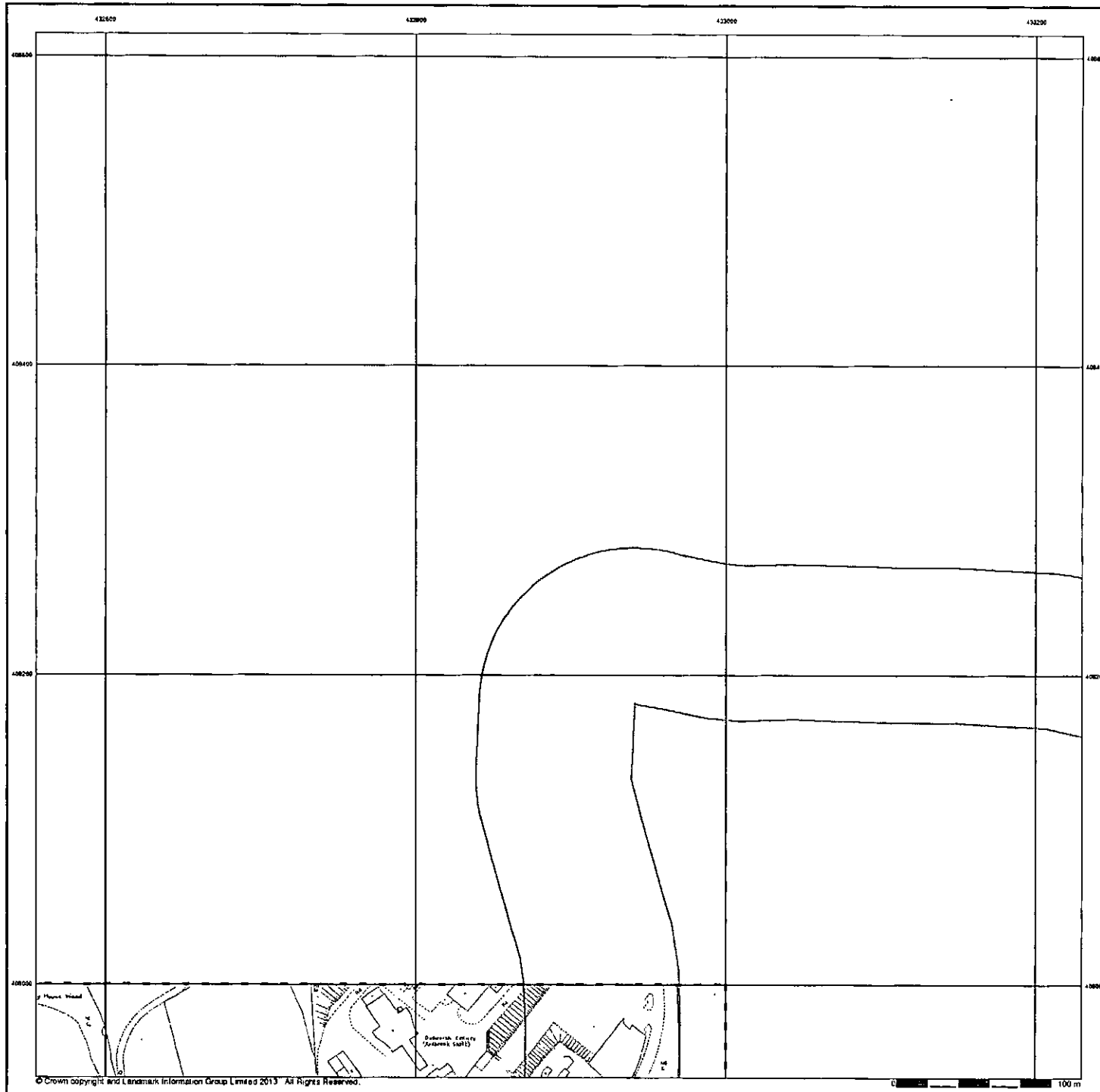


Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN



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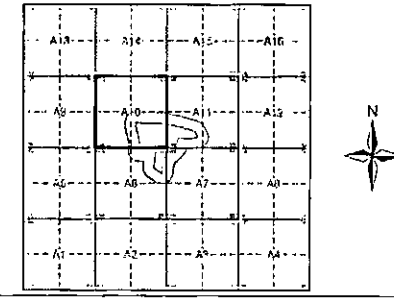
Additional SIMs
Published 1987
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



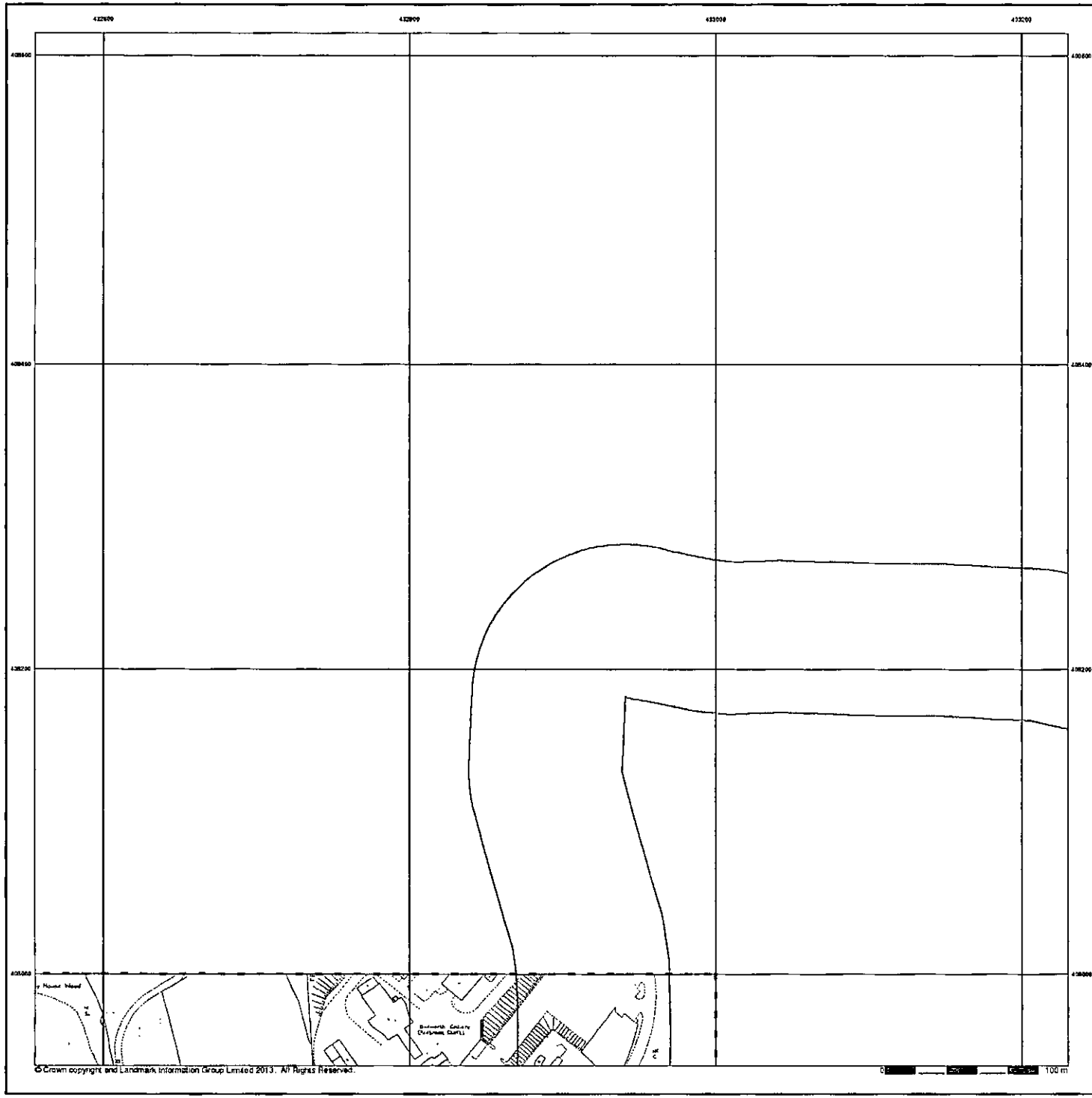
Order Details

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Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN

Landmark Information Group
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Fax: 0844 844 9951
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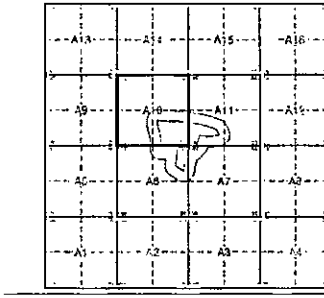
Additional SIMs
Published 1989
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



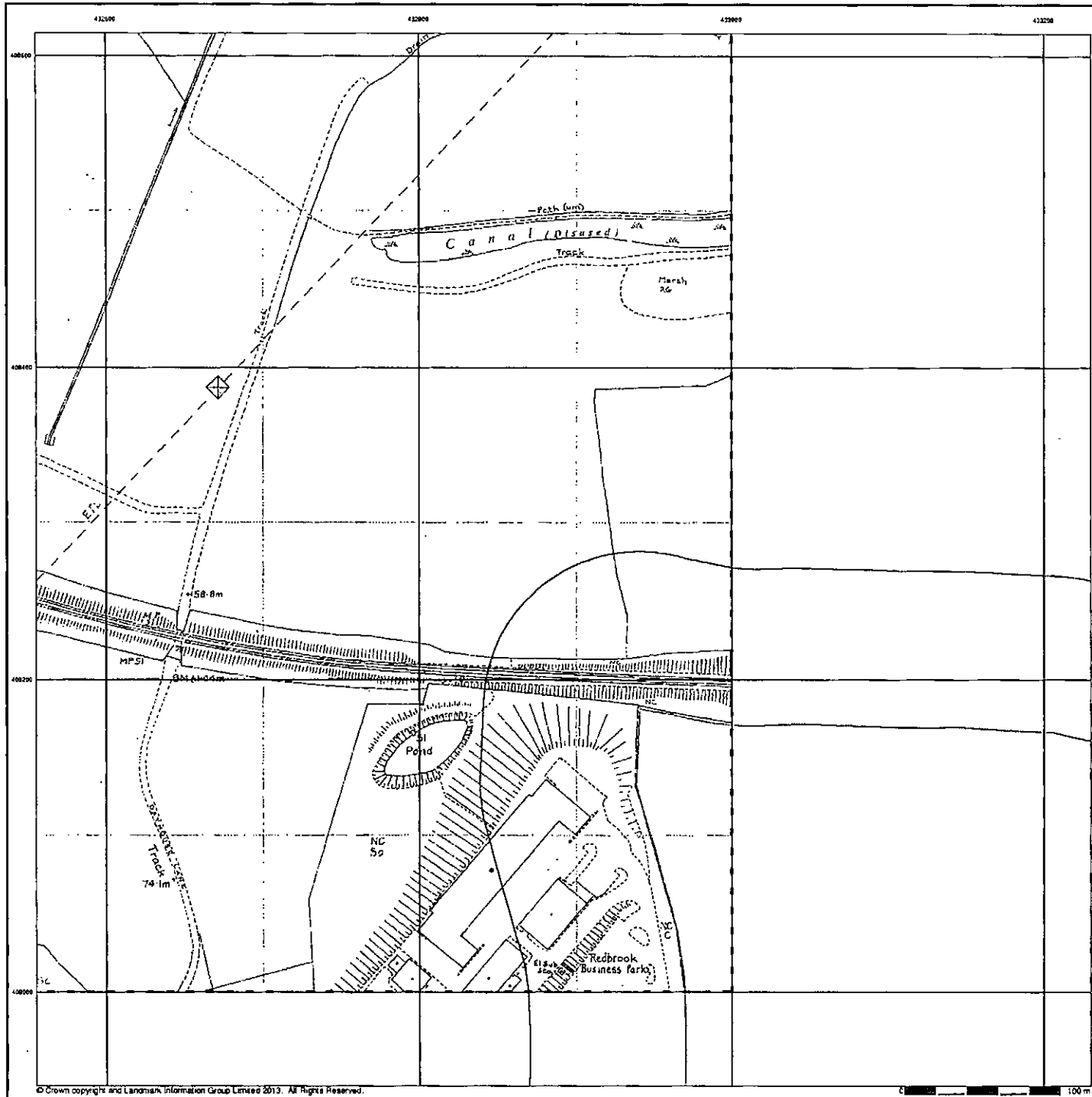
Order Details

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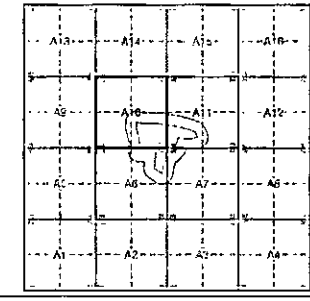
Additional SIMs
Published 1991
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3208
1991
1:2,500

Historical Map - Segment A10



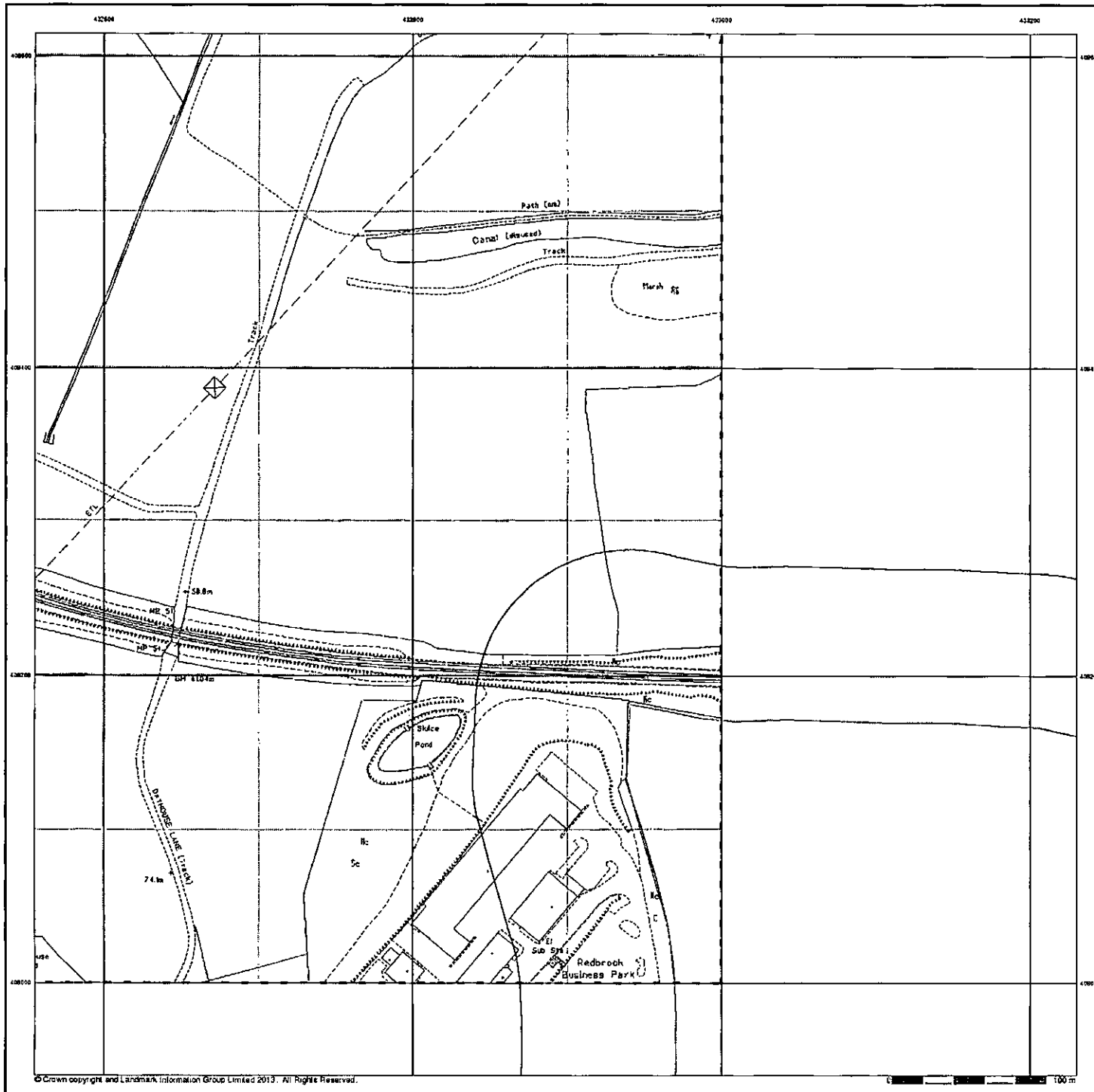
Order Details

Order Number:	51050043_1_1
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National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

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Large-Scale National Grid Data

Published 1993

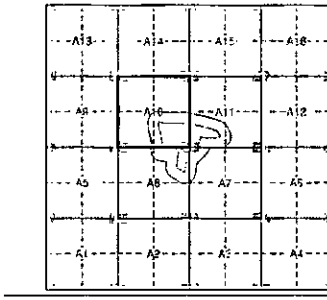
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3209
1993
1:2,500

Historical Map - Segment A10



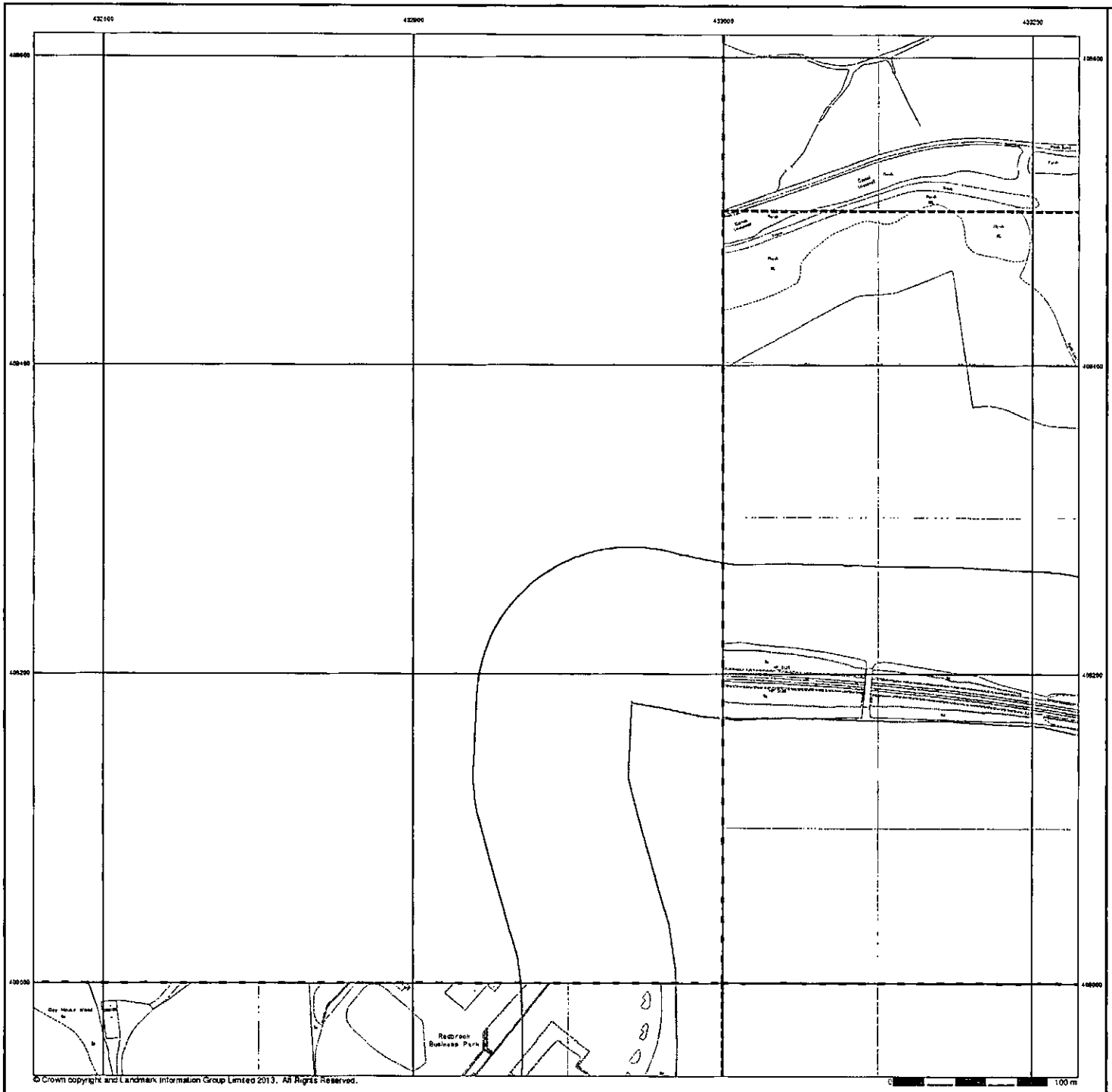
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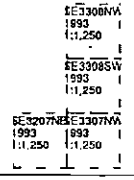


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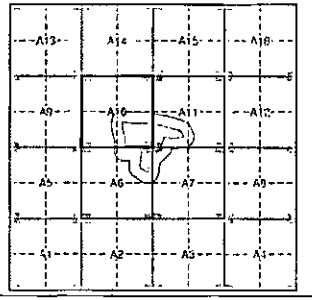
Large-Scale National Grid Data
Published 1993
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



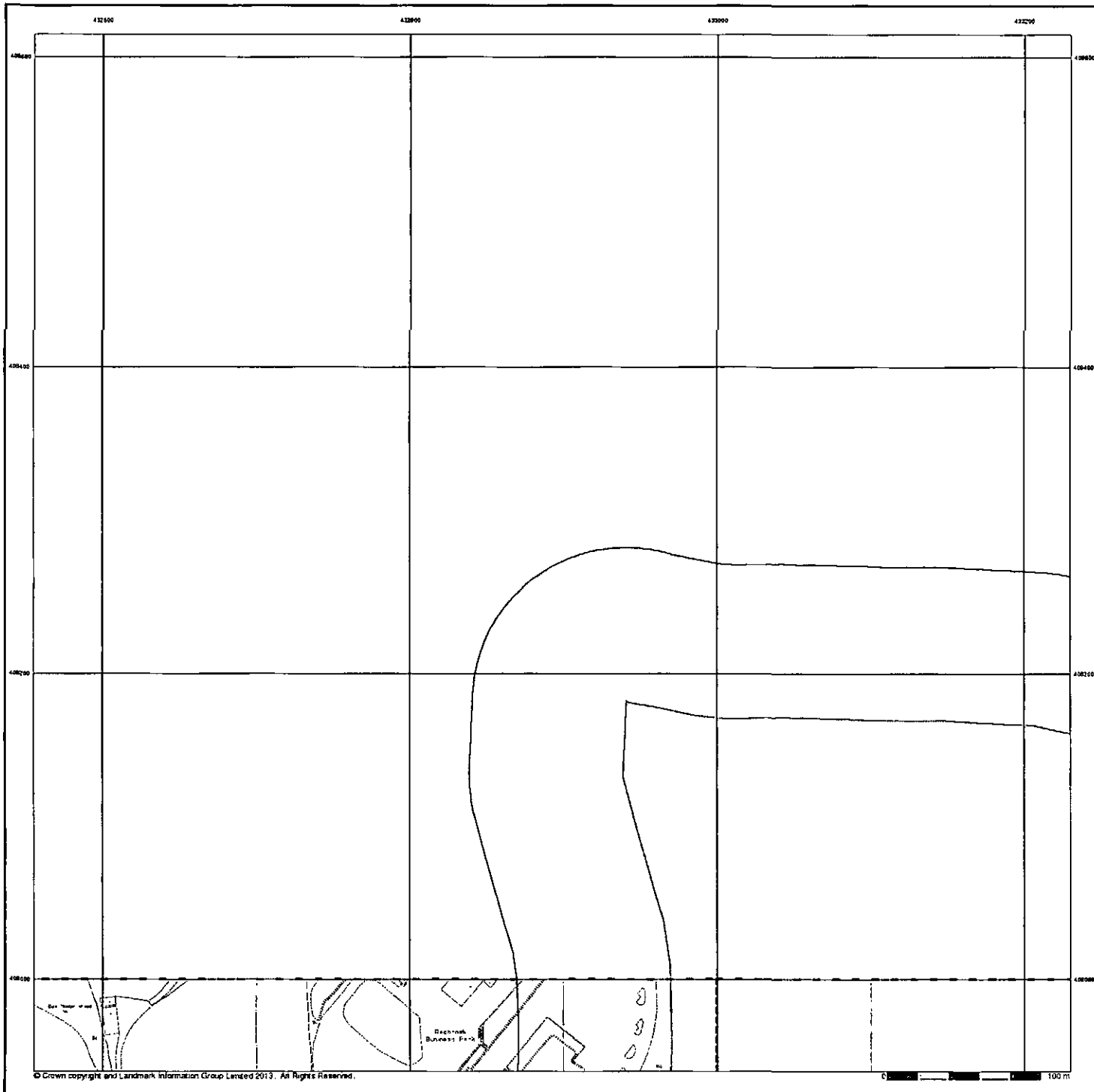
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National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
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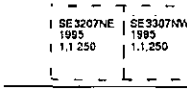
Large-Scale National Grid Data

Published 1995

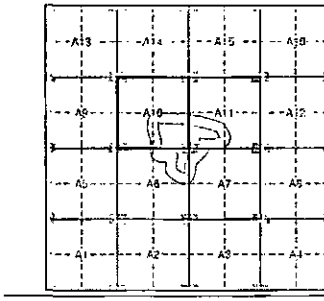
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



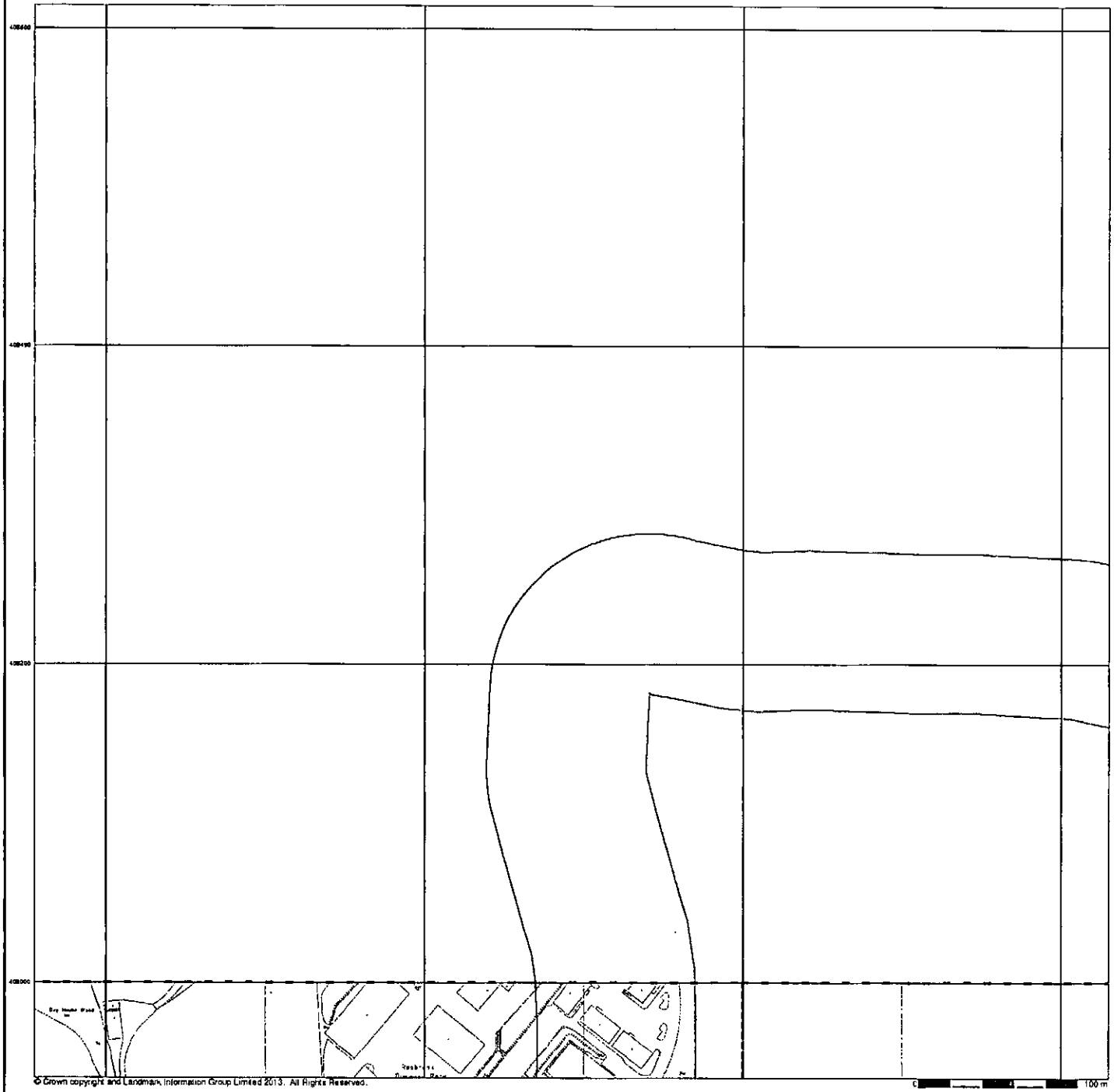
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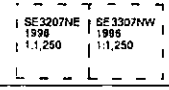


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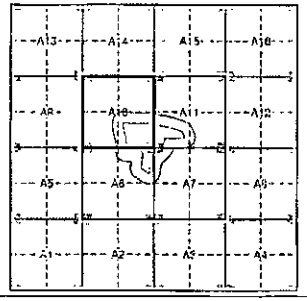
Large-Scale National Grid Data
Published 1996
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

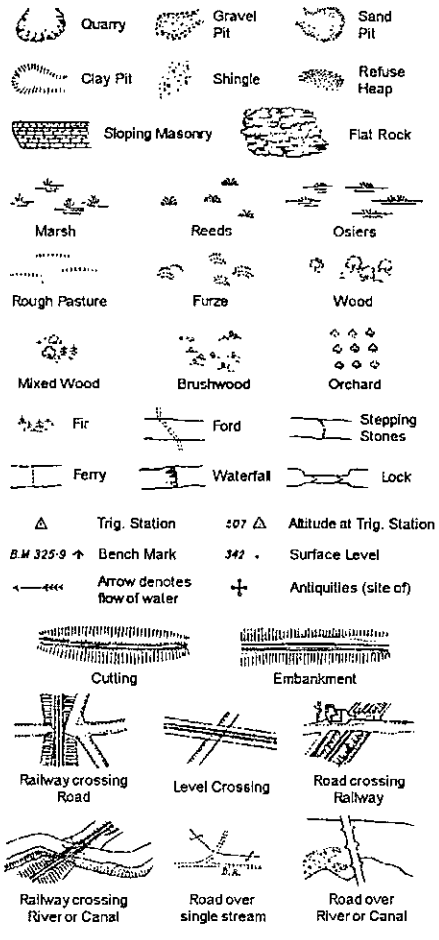
Site Details

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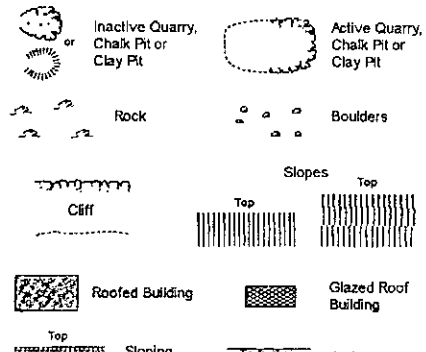
Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



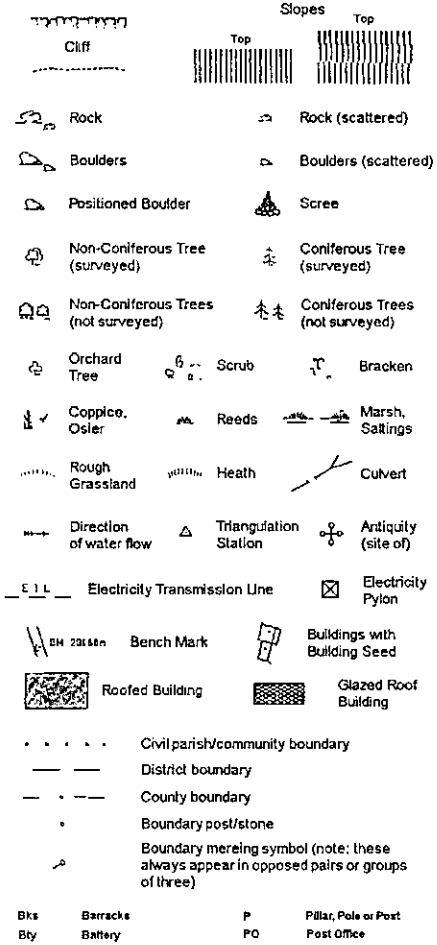
B.P B.S	Boundary Post or Stone	*P.C.B*	Police Call Box
B.R.	Bridle Road	*P*	Pump
E.P	Electricity Pylon	*S.P*	Signal Post
F.B.	Foot Bridge	*Sl.*	Sluice
F.P.	Foot Path	*Sp.*	Spring
G.P	Guide Post or Board	*T.C.B*	Telephone Call Box
M.S	Mile Stone	*Tr.*	Trough
M.P M.R	Mooring Post or Ring	*W*	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



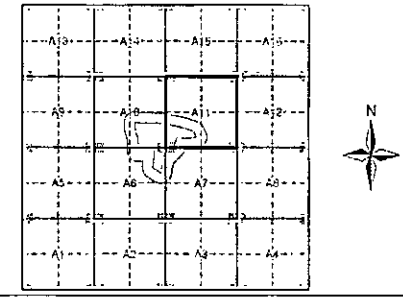
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governor	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

SiteSmart SiteUS

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1892	2
Yorkshire	1:2,500	1906	3
Yorkshire	1:2,500	1931	4
Ordnance Survey Plan	1:1,250	1959	5
Ordnance Survey Plan	1:2,500	1960 - 1962	6
Ordnance Survey Plan	1:1,250	1965 - 1976	7
Ordnance Survey Plan	1:2,500	1969	8
Supply of Unpublished Survey Information	1:1,250	1975	9
Additional SIMs	1:1,250	1991	10
Large-Scale National Grid Data	1:1,250	1993	11
Large-Scale National Grid Data	1:1,250	1995	12
Large-Scale National Grid Data	1:1,250	1996	13

Historical Map - Segment A11

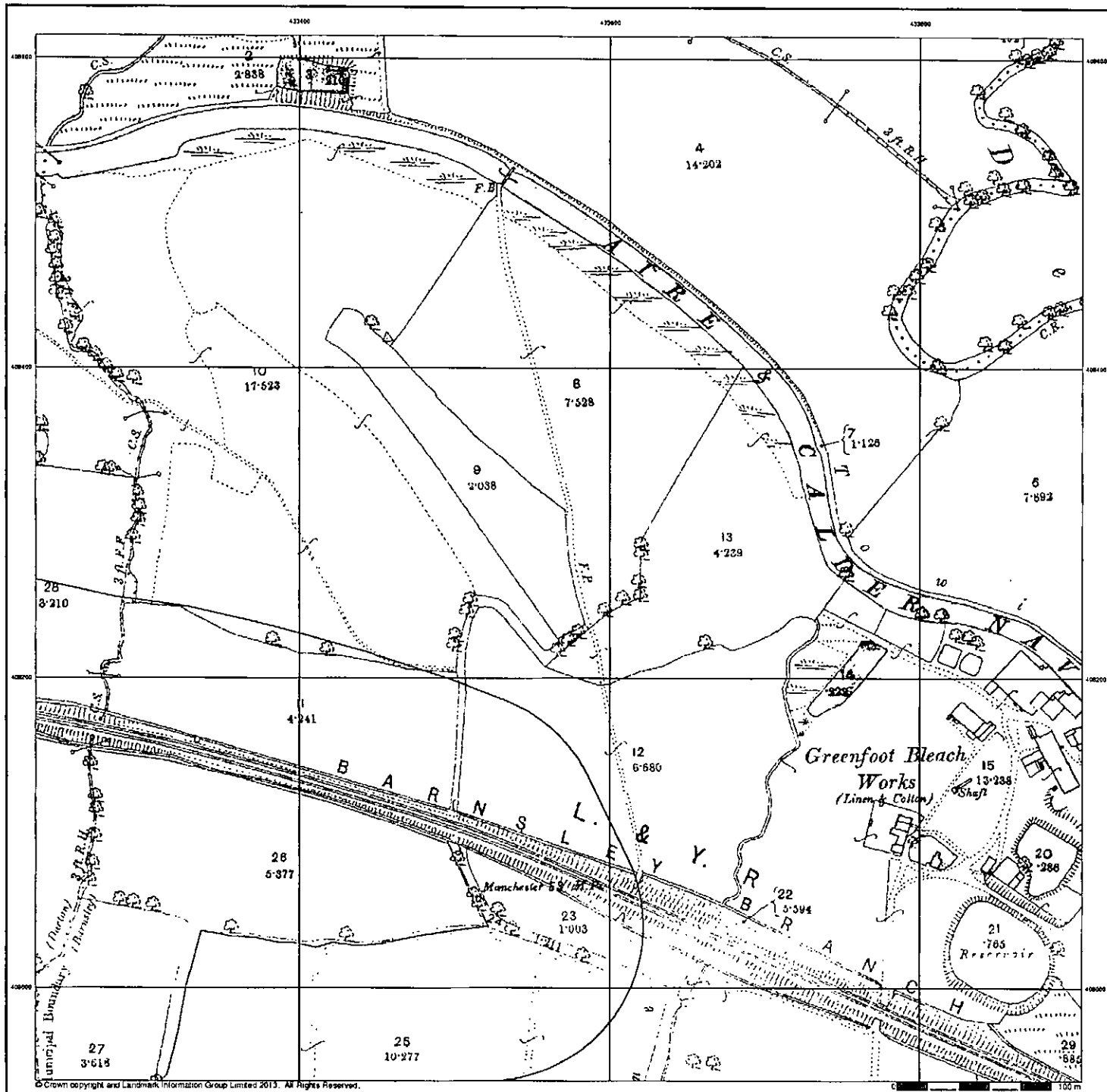


Order Details

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Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 100

Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN



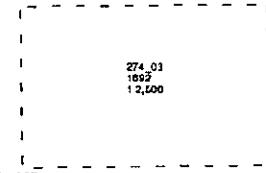
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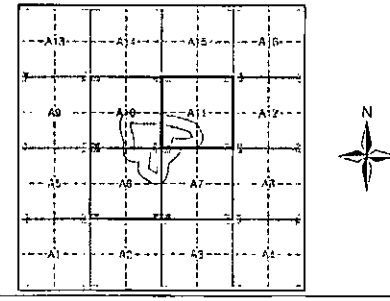
Yorkshire
Published 1892
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A11



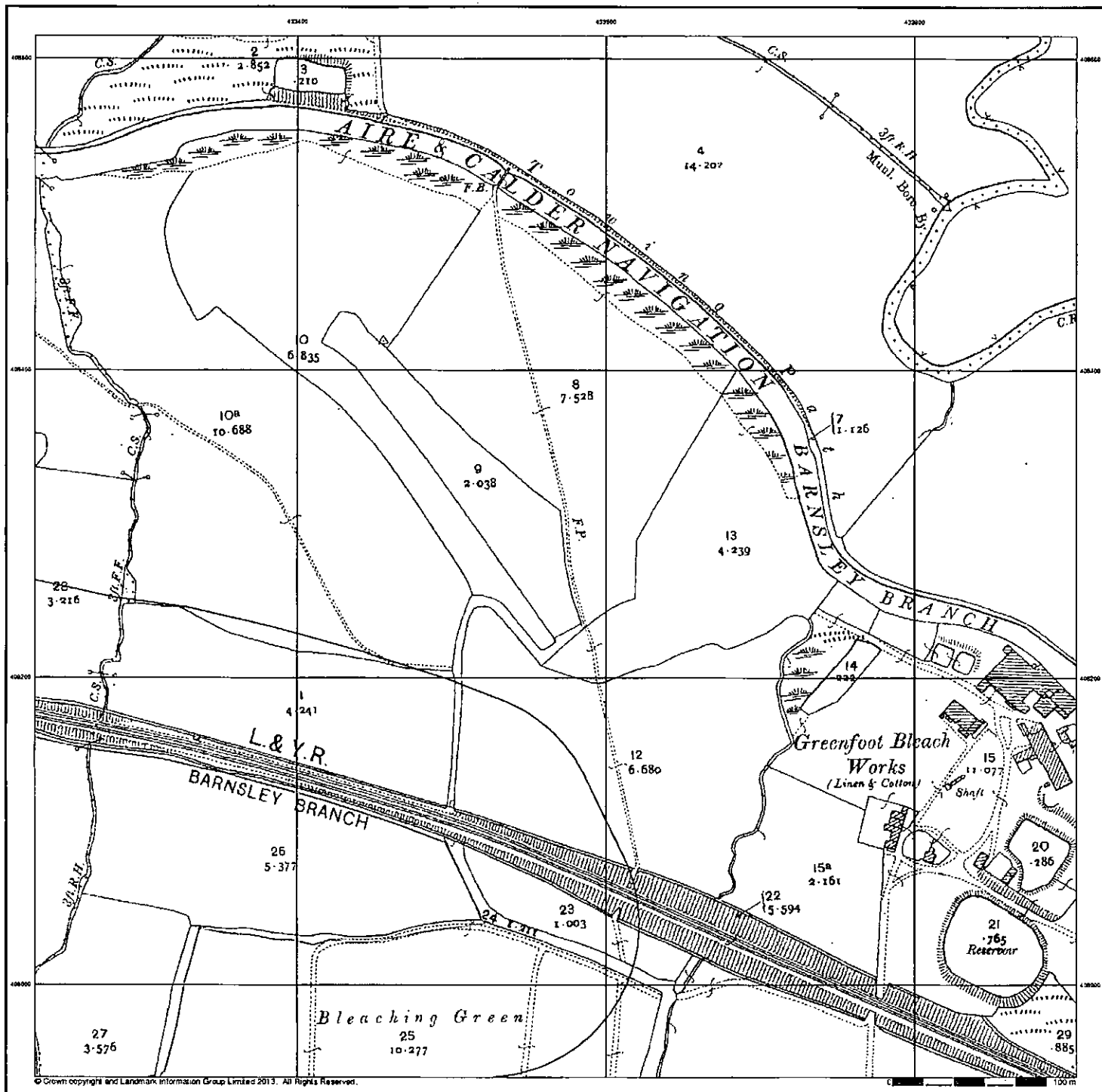
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Yorkshire

Published 1906

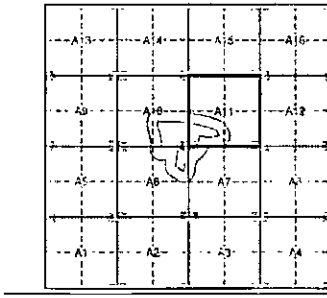
Source map scale - 1:2,500

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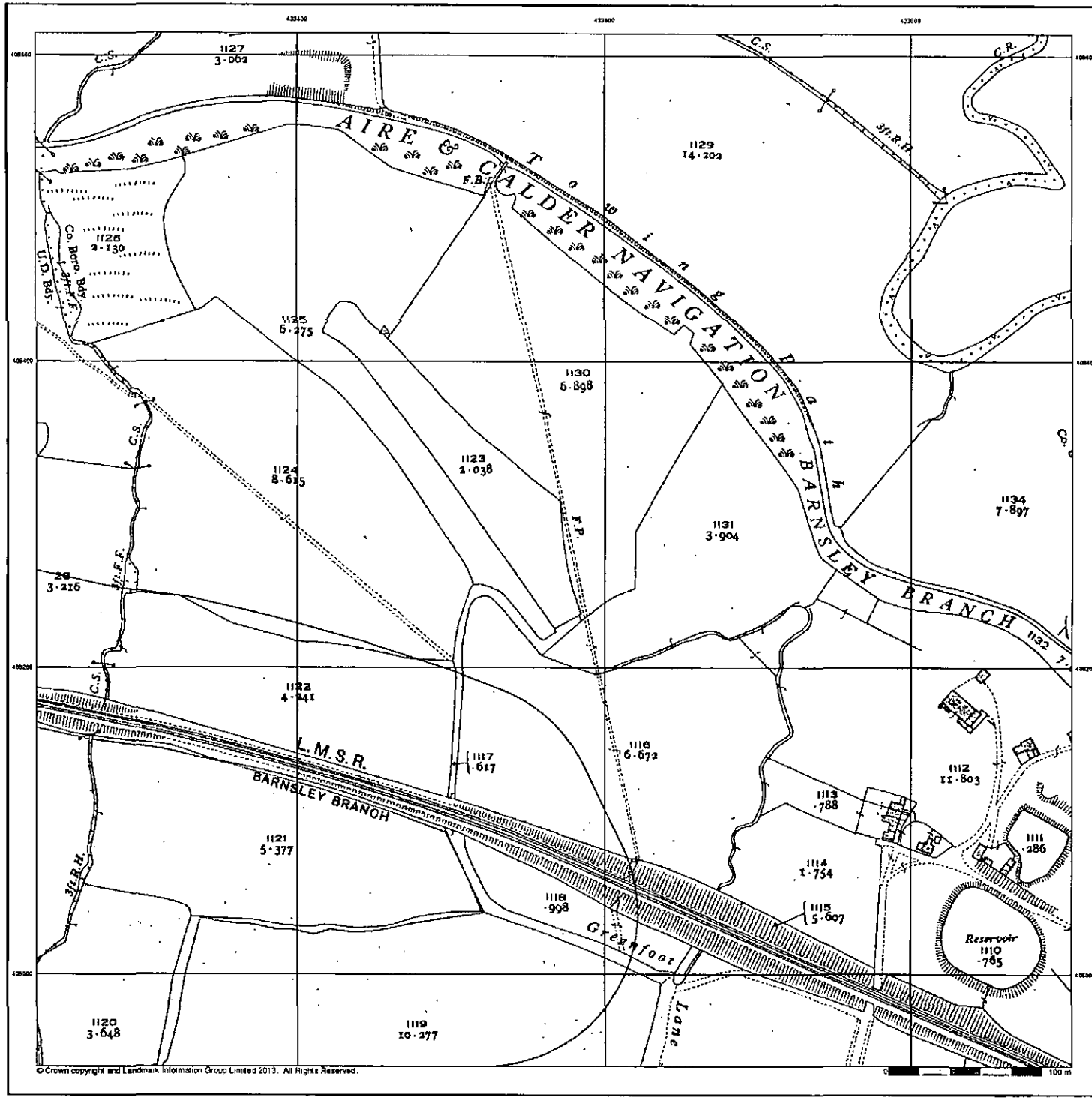
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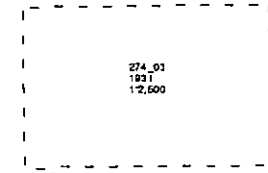
Yorkshire

Published 1931

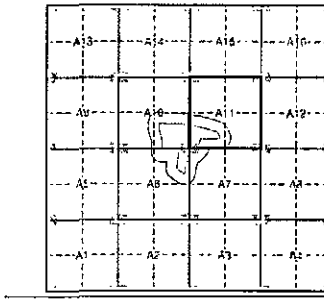
Source map scale - 1:2,500

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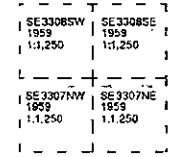


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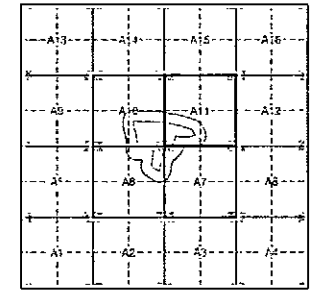
Ordnance Survey Plan
Published 1959
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A11



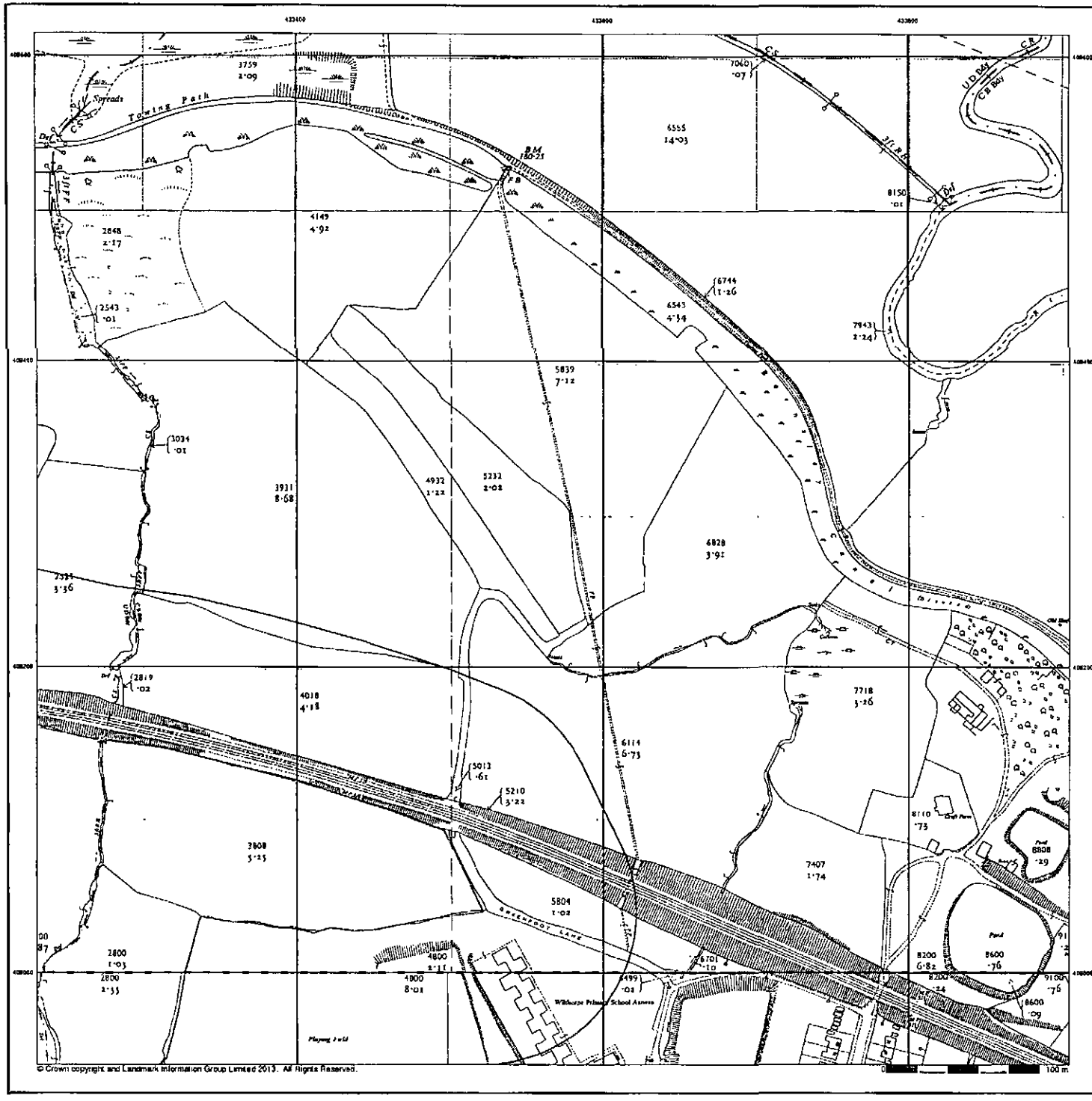
Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	100

Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN

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Ordnance Survey Plan
Published 1960 - 1962
Source map scale - 1:2,500

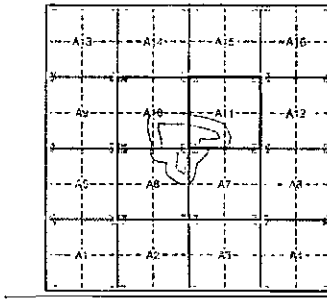
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE3308
1962
1:2,500

SE3307
1960
1:2,500

Historical Map - Segment A11



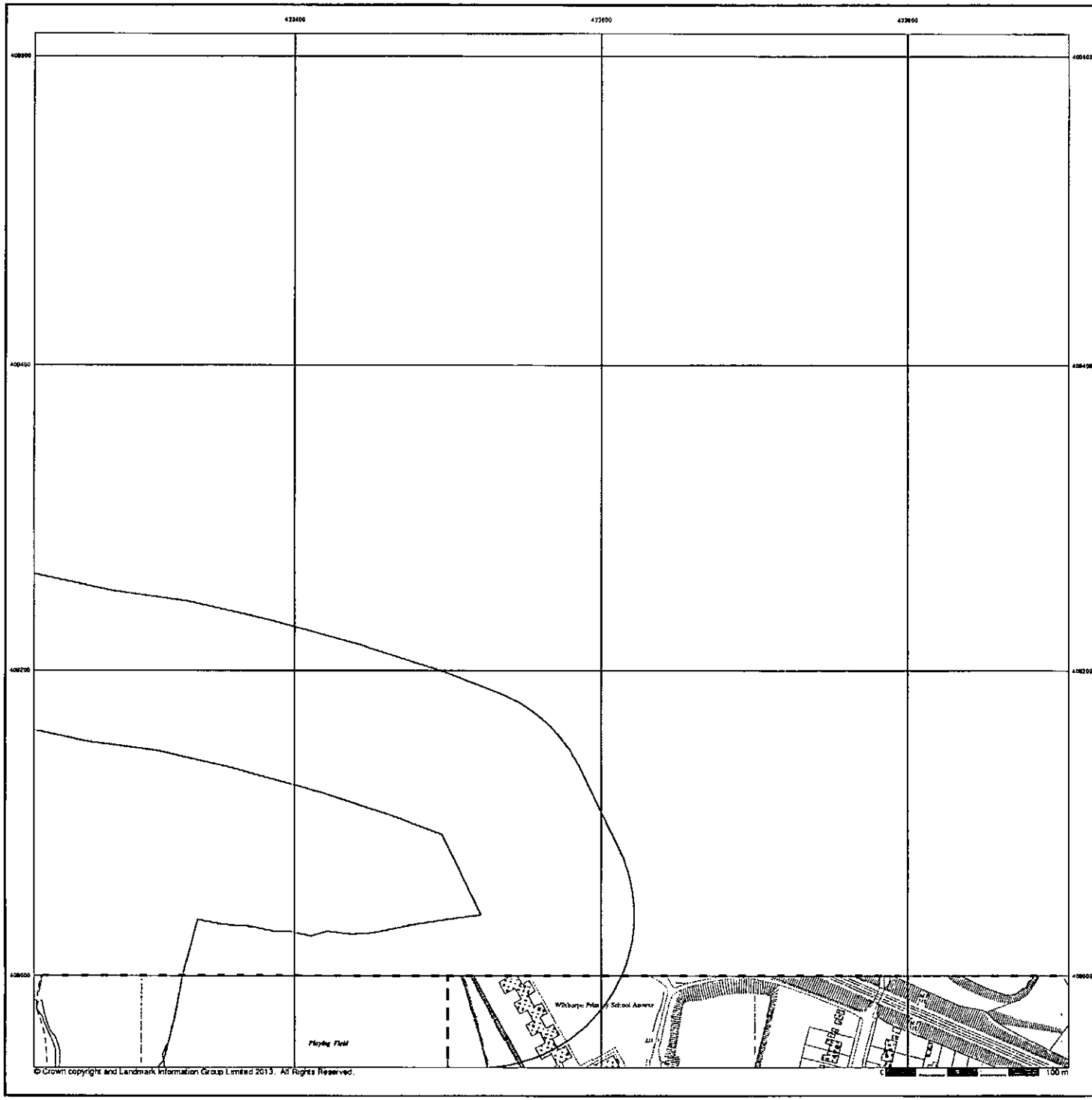
Order Details

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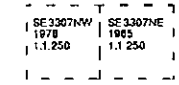


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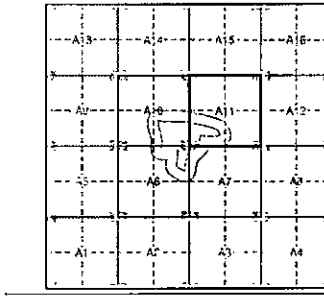
Ordnance Survey Plan
Published 1965 - 1978
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A11



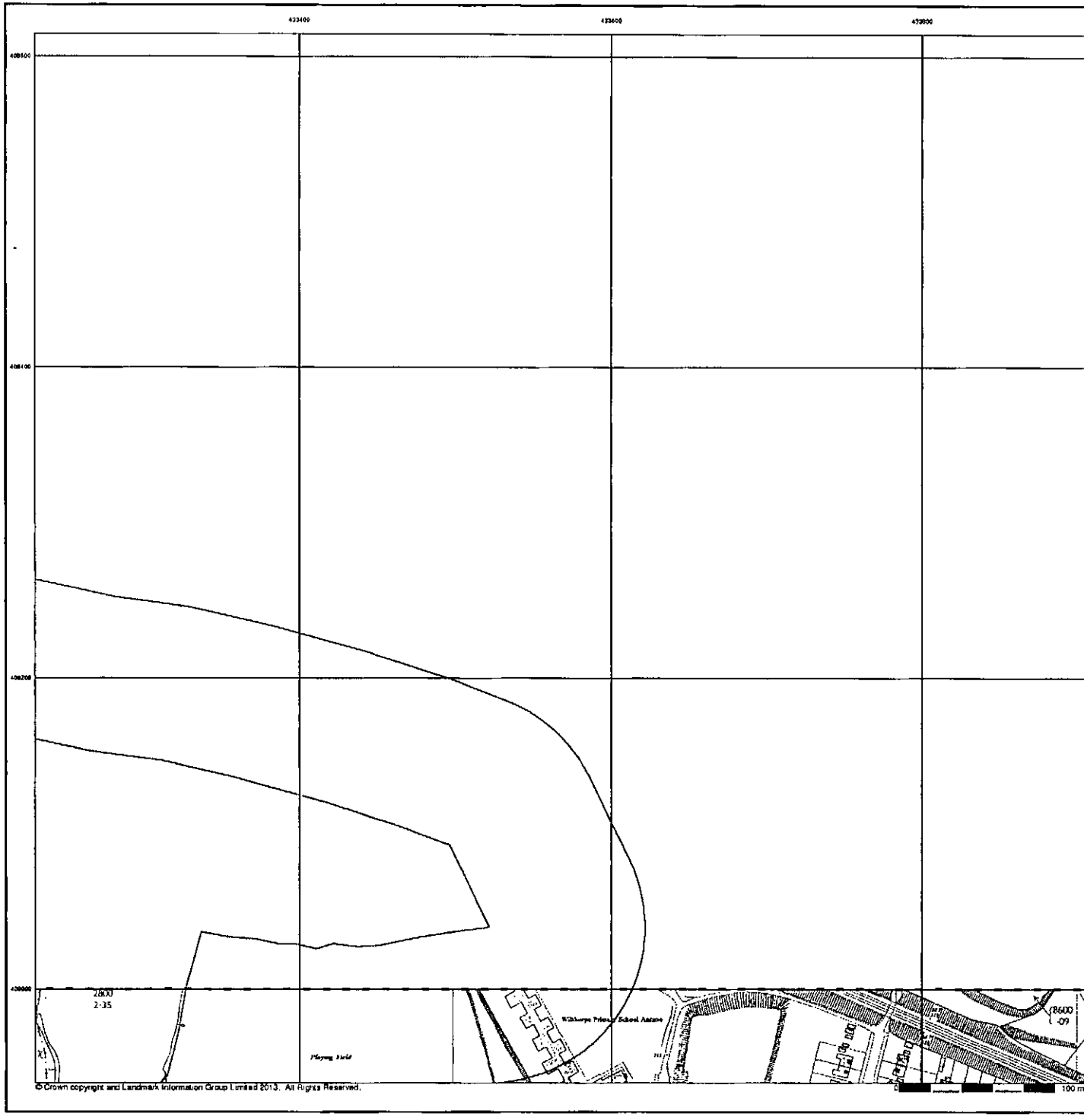
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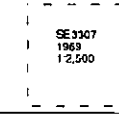


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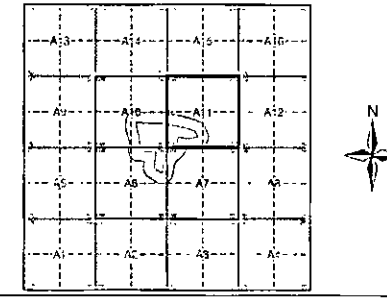
Ordnance Survey Plan
Published 1969
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A11



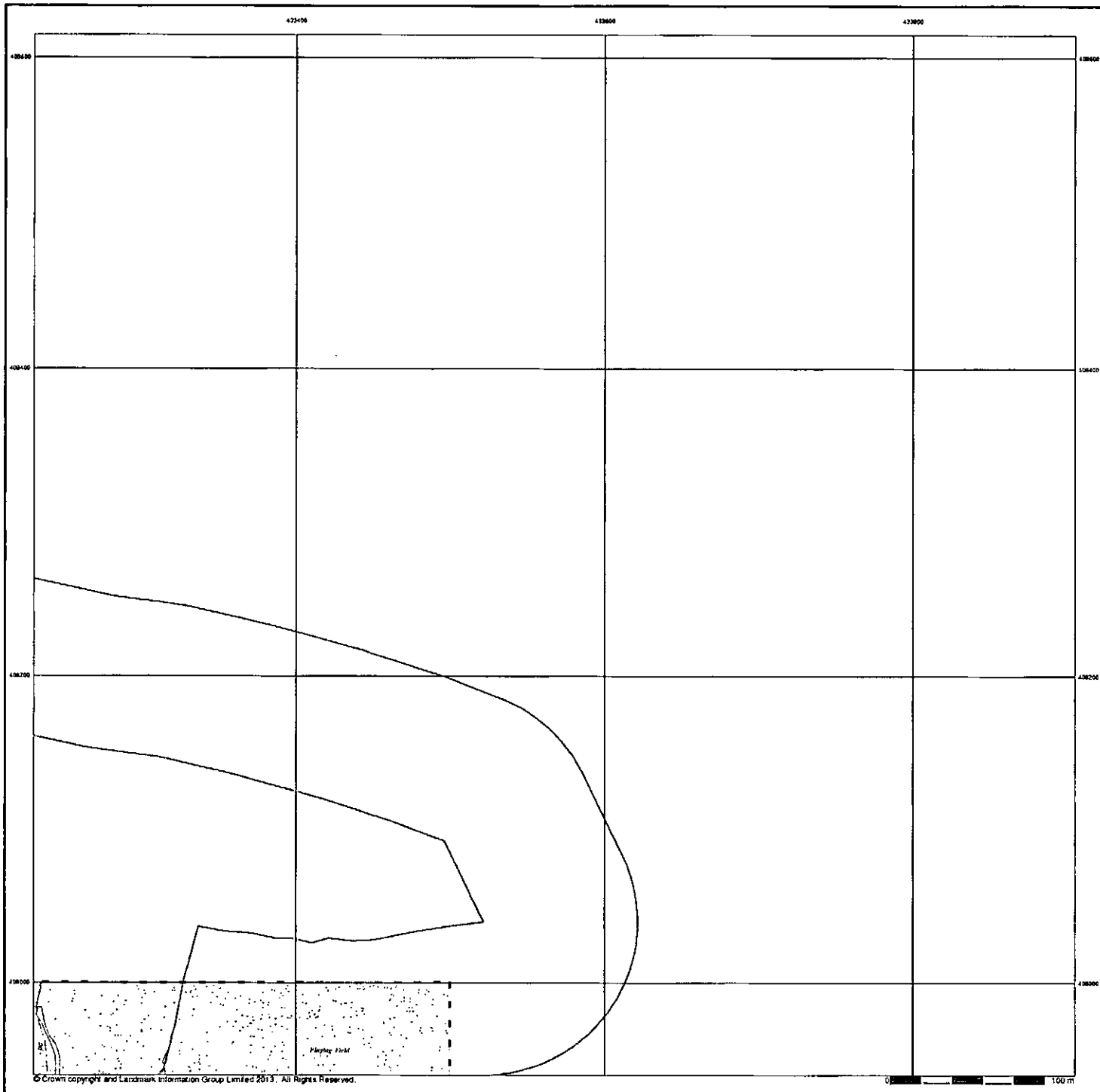
Order Details

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Supply of Unpublished Survey Information

Published 1975

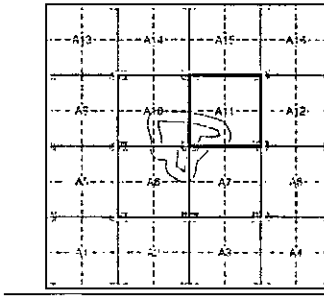
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

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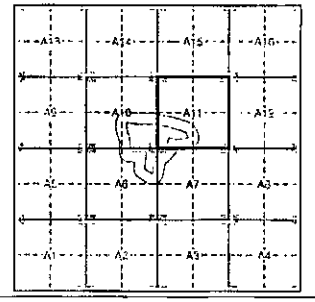
Additional SIMs
Published 1991
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3308SW 1991 1:1,250	SE3308SE 1991 1:1,250
SE3307NW 1991 1:1,250	SE3307NE 1991 1:1,250

Historical Map - Segment A11



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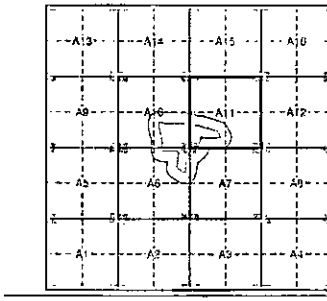
Large-Scale National Grid Data
Published 1993
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3308NW 1993 1:1,250	SE3308NE 1993 1:1,250
SE3308SW 1993 1:1,250	SE3308SE 1993 1:1,250
SE3307NW 1993 1:1,250	SE3307NE 1993 1:1,250

Historical Map - Segment A11



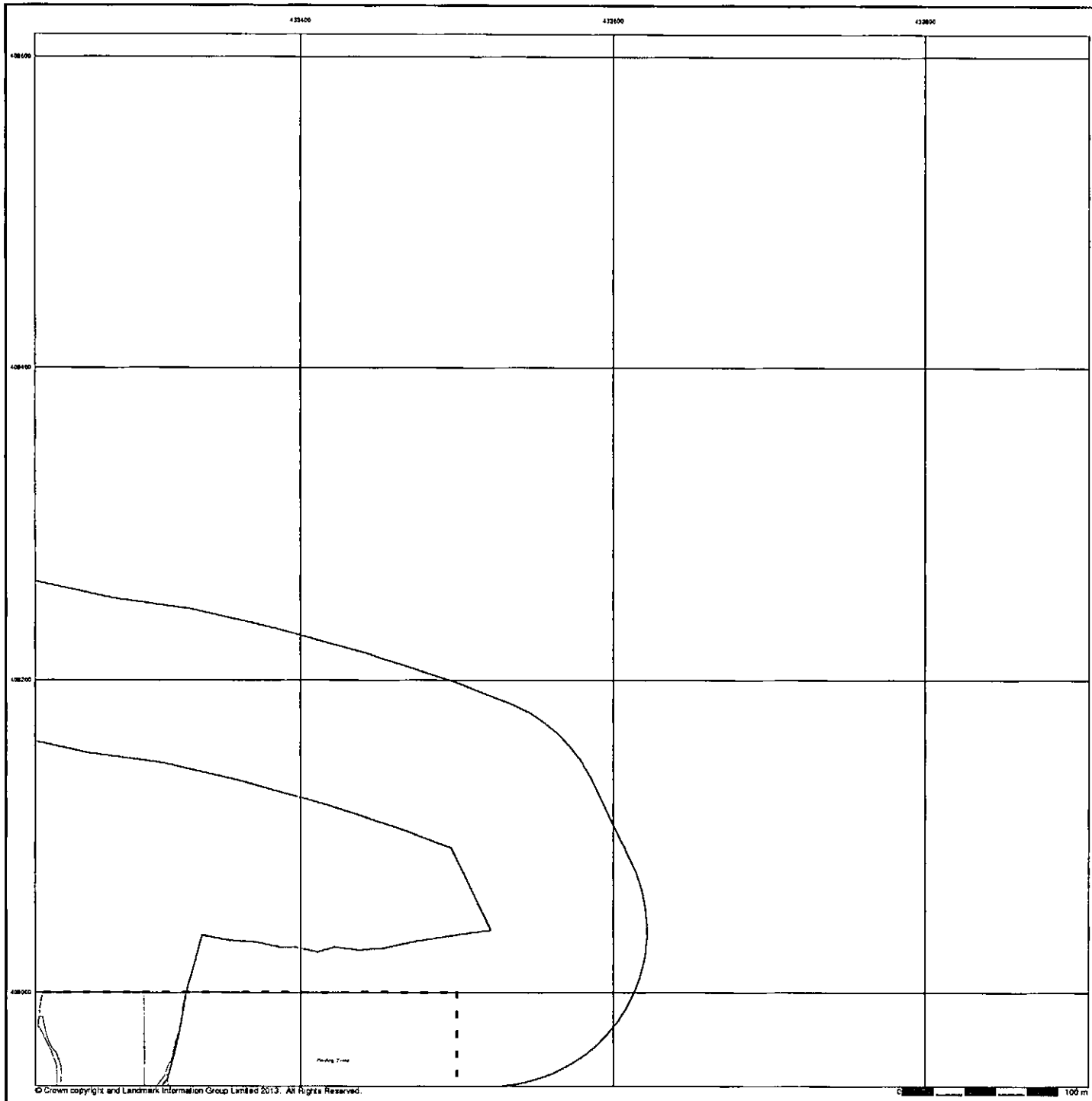
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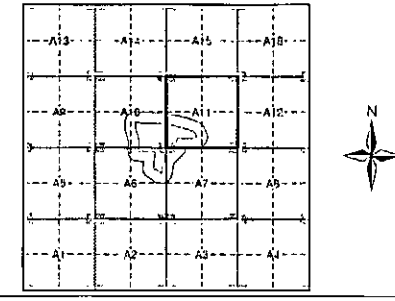
Large-Scale National Grid Data
Published 1995
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE3307NW
1995
1:1,250

Historical Map - Segment A11



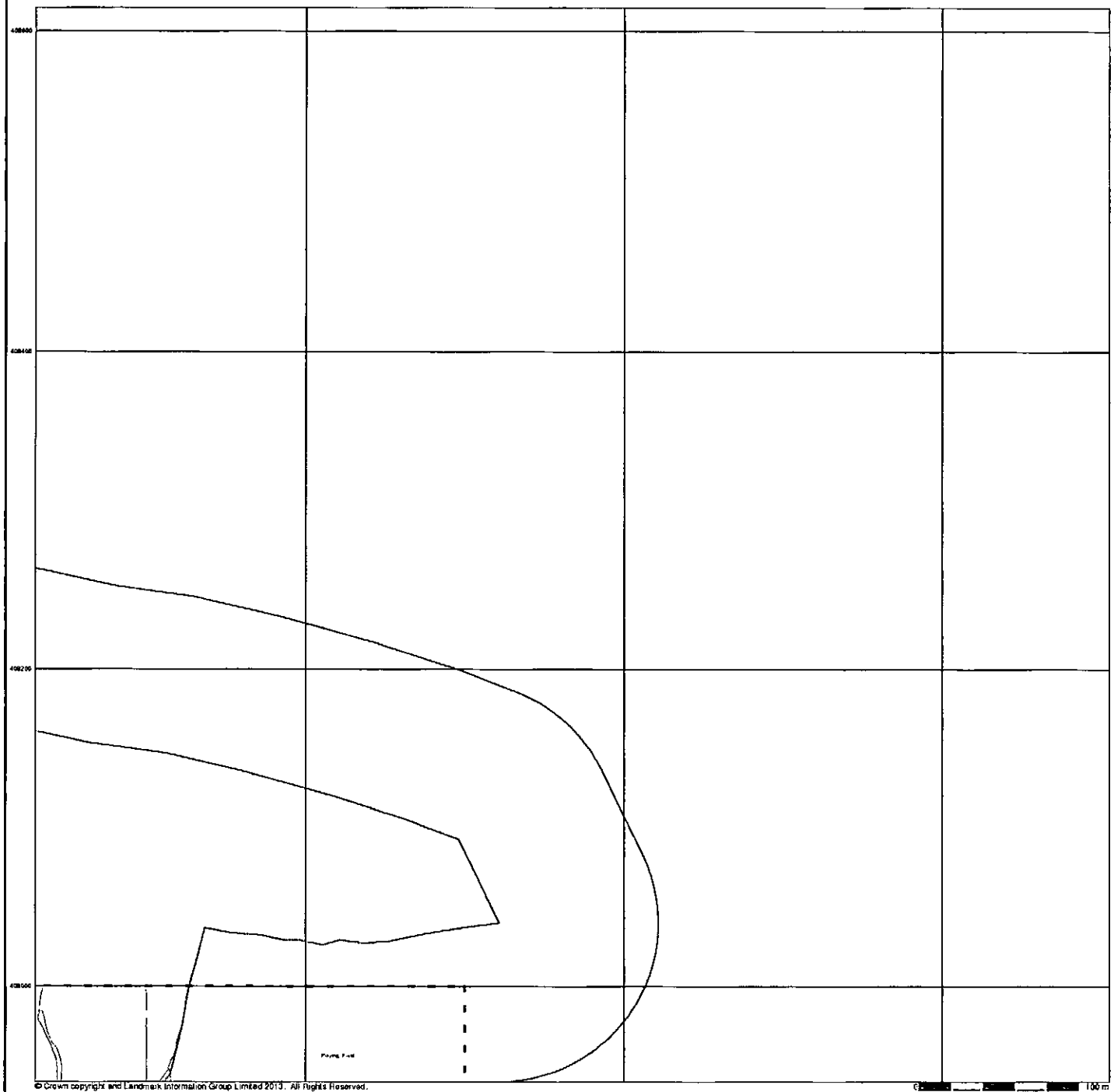
Order Details

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Large-Scale National Grid Data

Published 1996

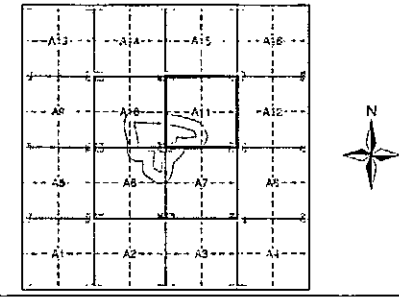
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

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Slice:	A
Site Area (Ha):	12.7
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Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

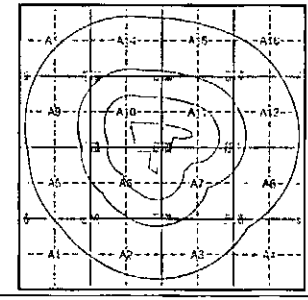
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

sirius

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1855	2
Yorkshire	1:10,560	1894	3
Yorkshire	1:10,560	1907	4
Yorkshire	1:10,560	1932 - 1933	5
Yorkshire	1:10,560	1938	6
Yorkshire	1:10,560	1938 - 1948	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1966	10
Ordnance Survey Plan	1:10,000	1973	11
Ordnance Survey Plan	1:10,000	1983	12
Ordnance Survey Plan	1:10,000	1993	13
10K Raster Mapping	1:10,000	2006	14
10K Raster Mapping	1:10,000	2013	15

Historical Map - Slice A



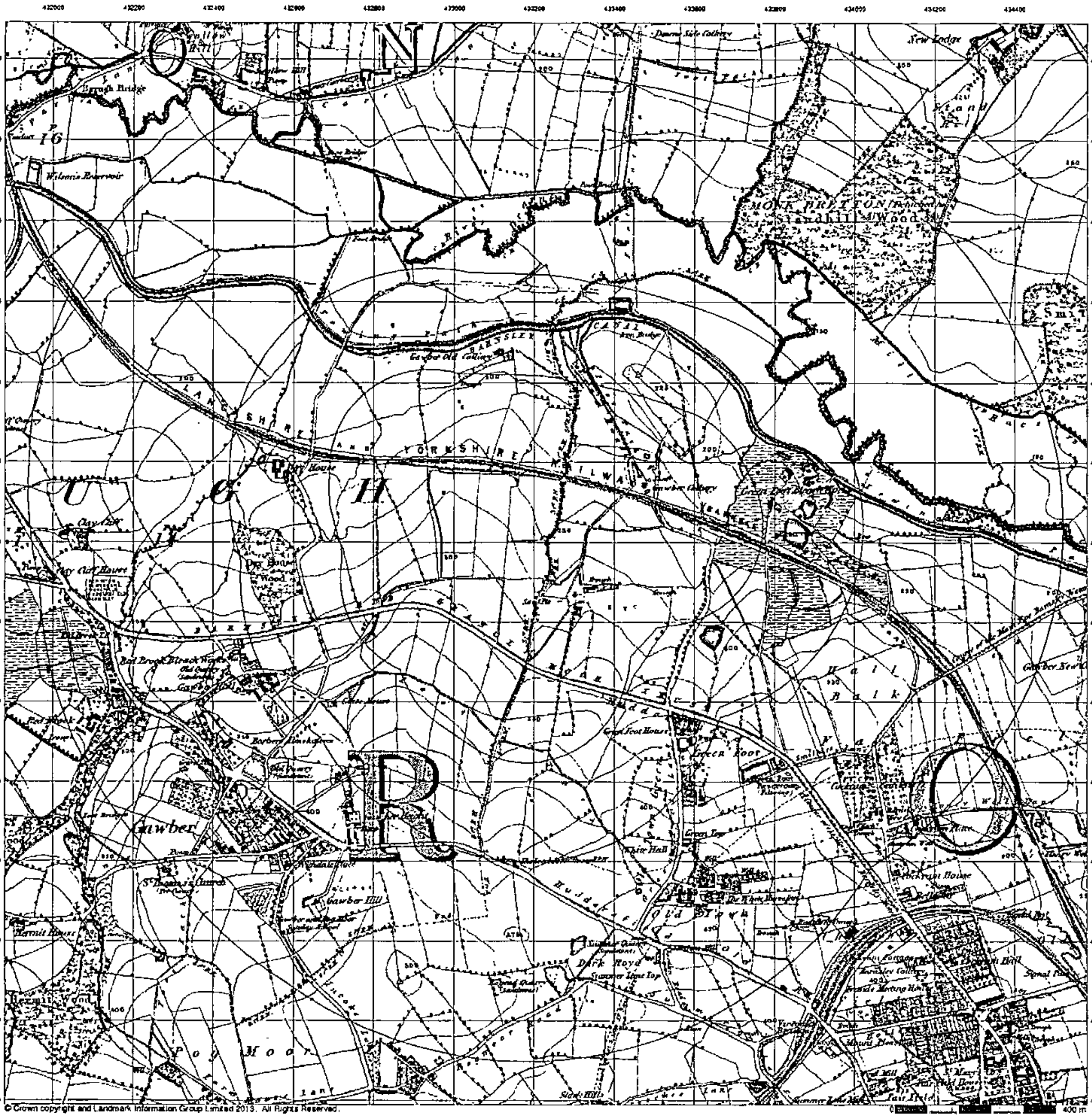
Order Details

Order Number: 51060043_1_1
Customer Ref: Wilthorpe Road, Barnsley
National Grid Reference: 433200, 407990
Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 1000

Site Details

Land North of Wilthorpe Road, Barnsley, South Yorkshire, S75 1JN

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Yorkshire

Published 1855

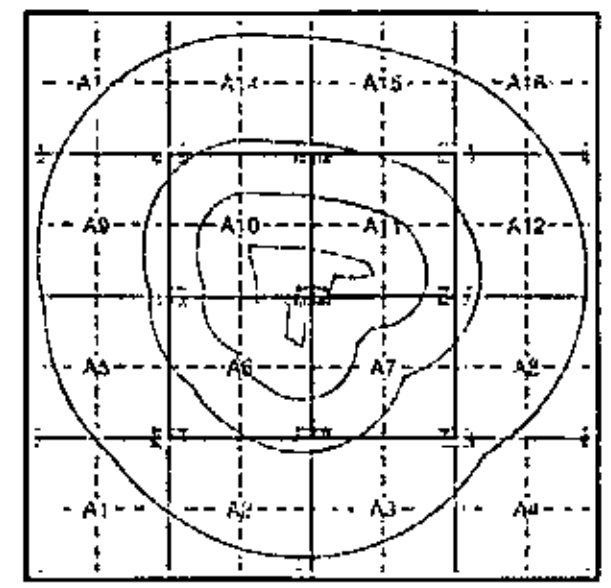
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

27400
1855
1:10,560

Historical Map - Slice A



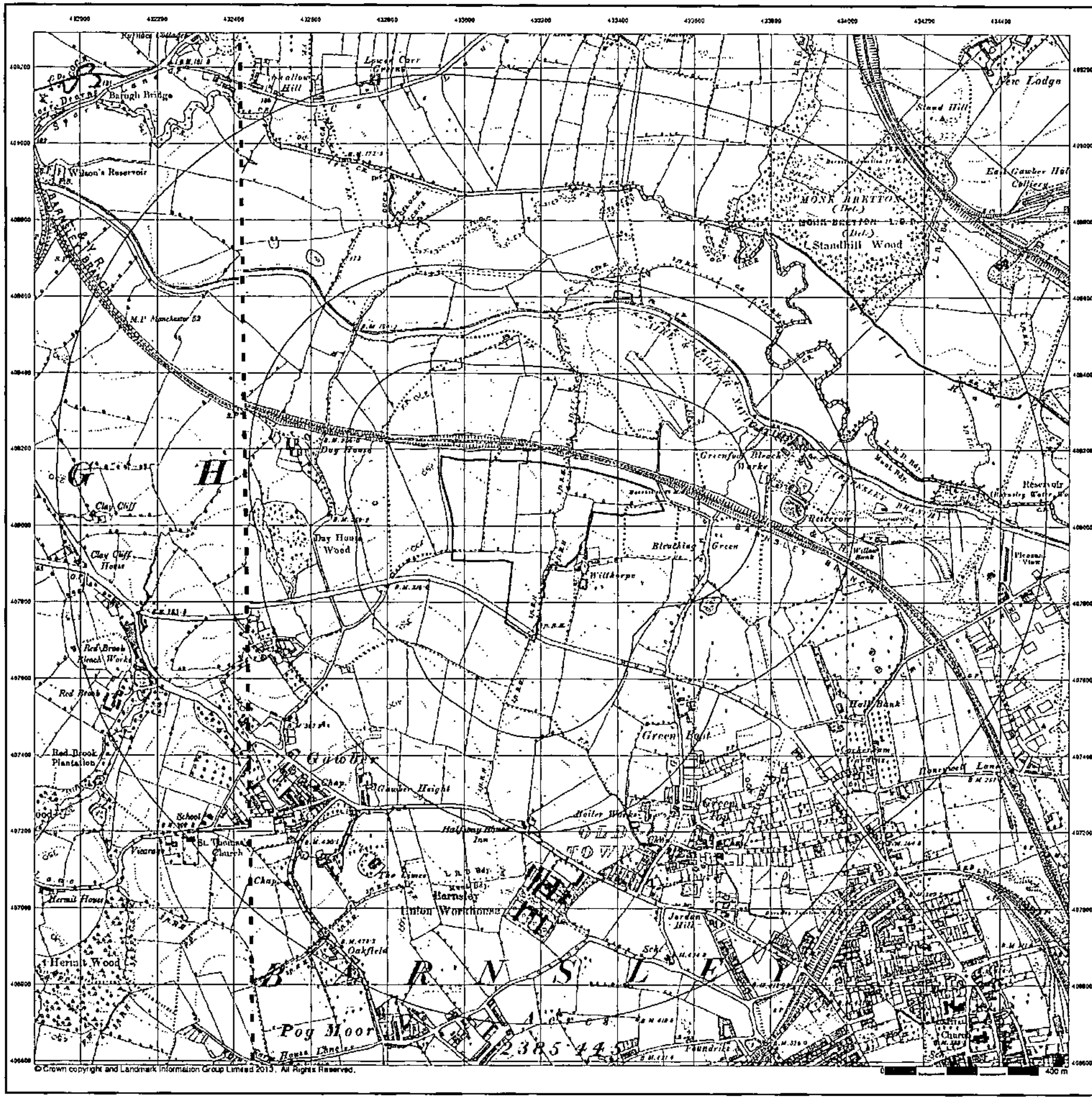
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Yorkshire

Published 1894

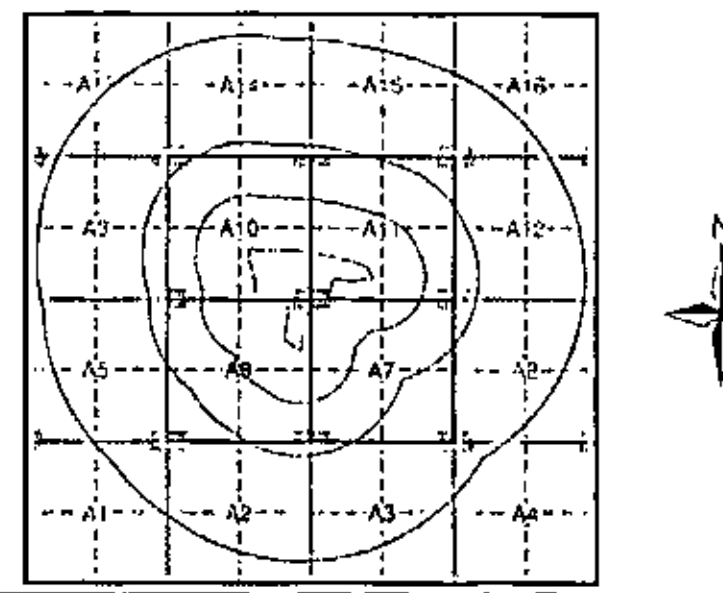
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

274NW 1894 1:10,560	274NE 1894 1:10,560

Historical Map - Slice A



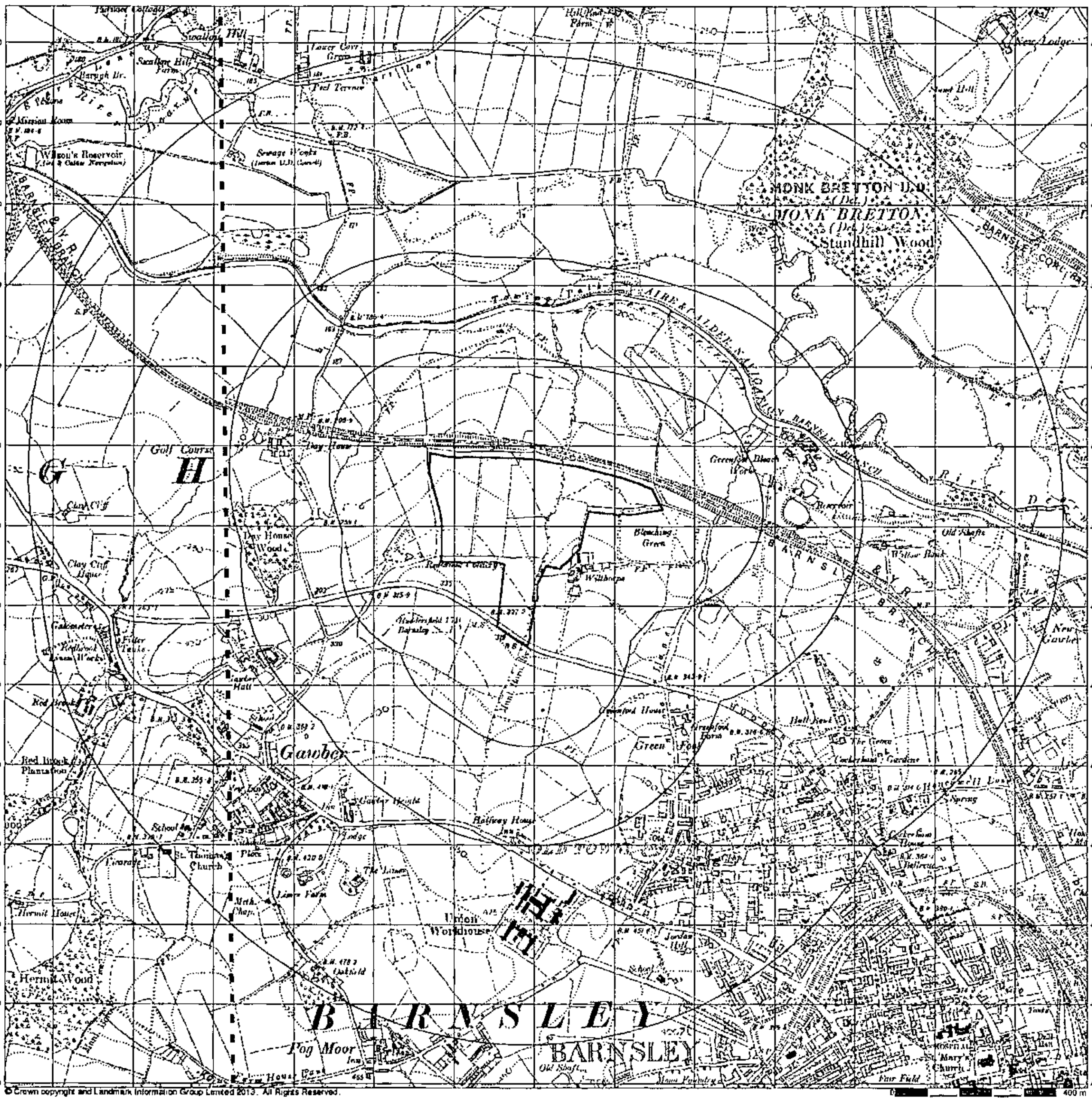
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Yorkshire

Published 1907

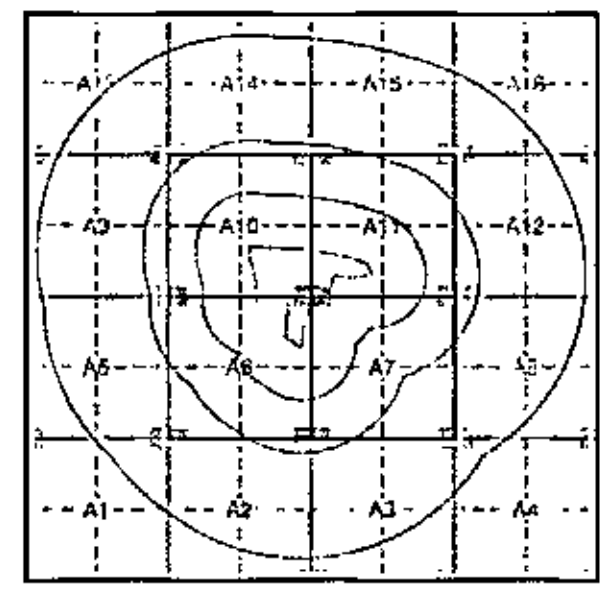
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

274NW 1907 1:10,560	274NE 1907 1:10,560

Historical Map - Slice A



Order Details

Order Number: 51060043_1_1
Customer Ref: Willhorpe Road, Barnsley
National Grid Reference: 433200, 407990
Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 1000

Site Details

Land North of Willhorpe Road, Barnsley, South Yorkshire, S75 1JN

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Yorkshire

Published 1932 - 1933

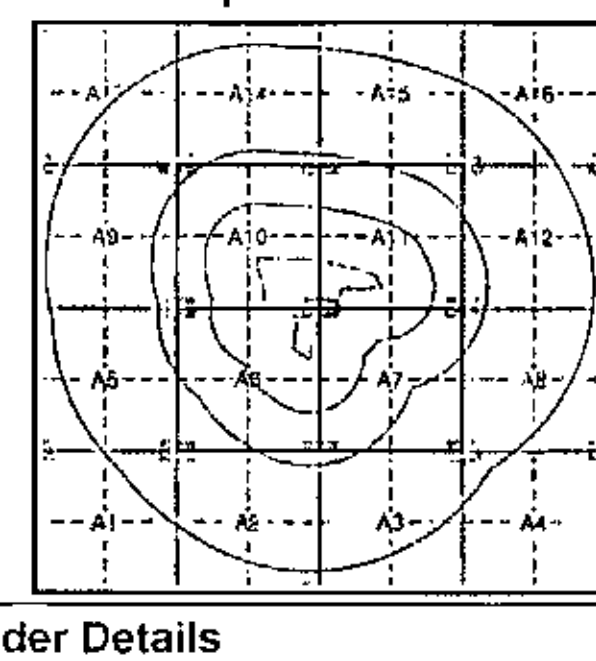
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

274NW 1933 1:10,560	274NE 1932 1:10,560

Historical Map - Slice A



Order Details

Order Number: 51060043_1_1
Customer Ref: Wilthorpe Road, Barnsley
National Grid Reference: 433200, 407990
Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 1000

Site Details

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Yorkshire

Published 1938

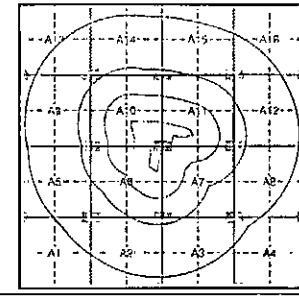
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

274NW	274NE
1938	1939
1:10,560	1:10,560

Historical Map - Slice A



Order Details

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Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

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Yorkshire

Published 1938 - 1948

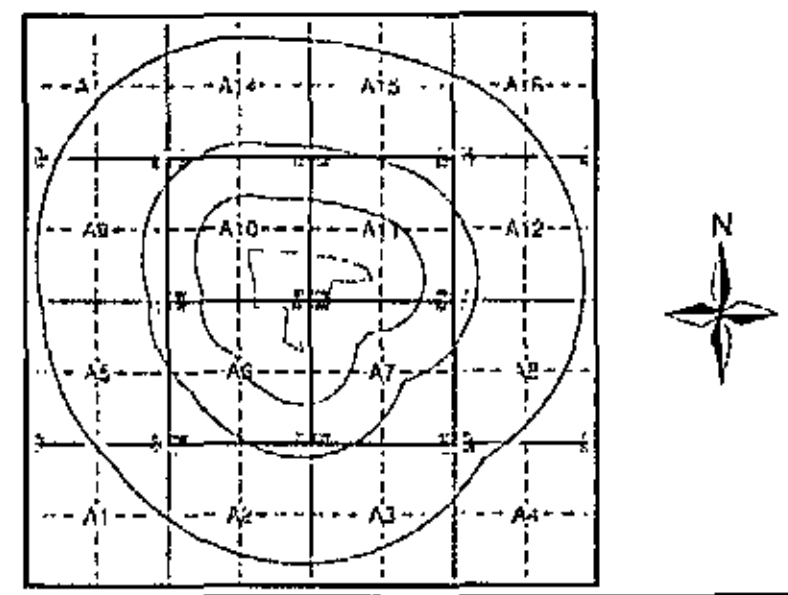
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

274NW 1938 1:10,560	274NE 1948 1:10,560

Historical Map - Slice A



Order Details

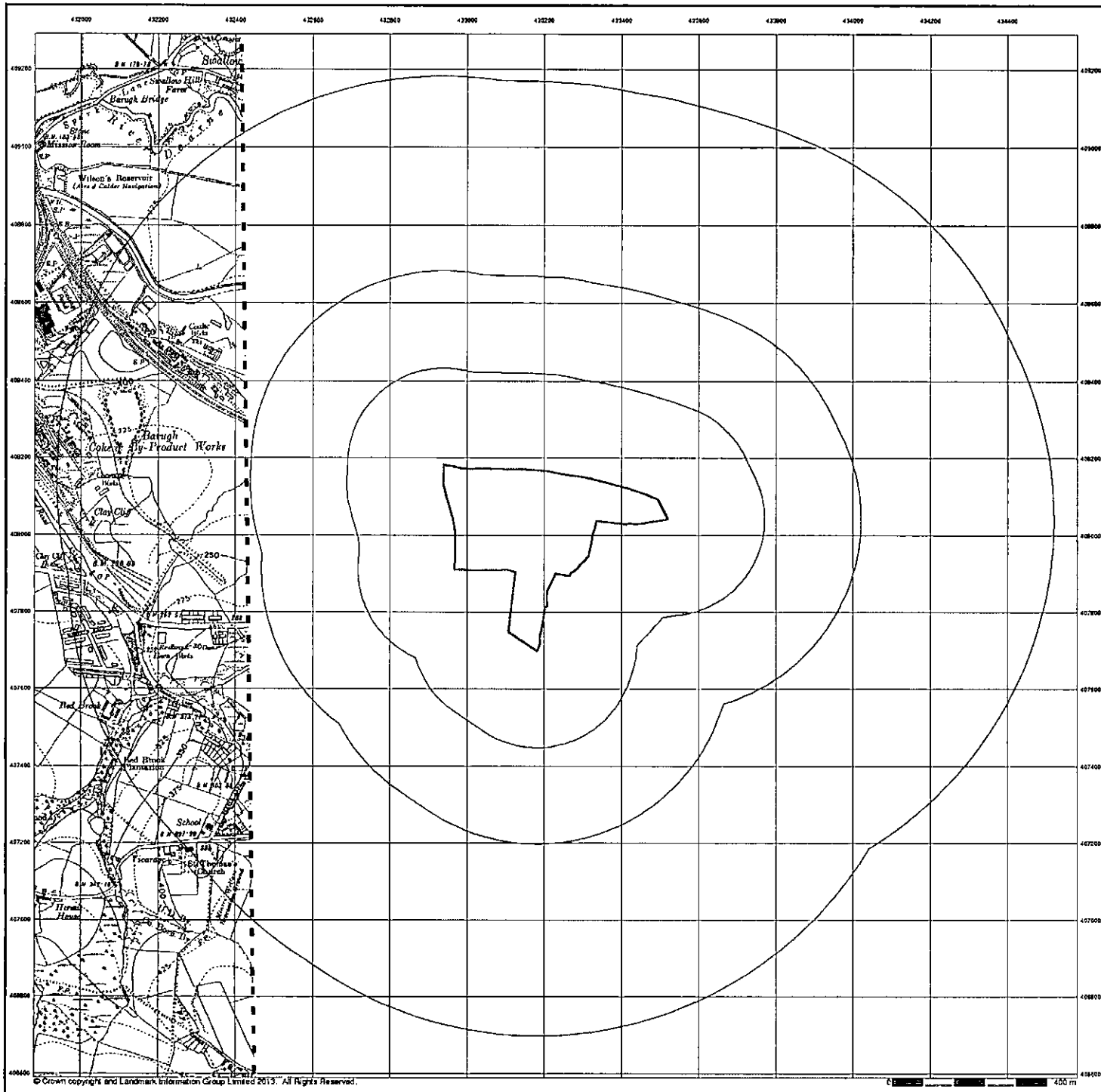
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Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

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Yorkshire

Published 1948

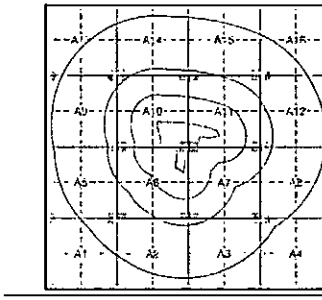
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



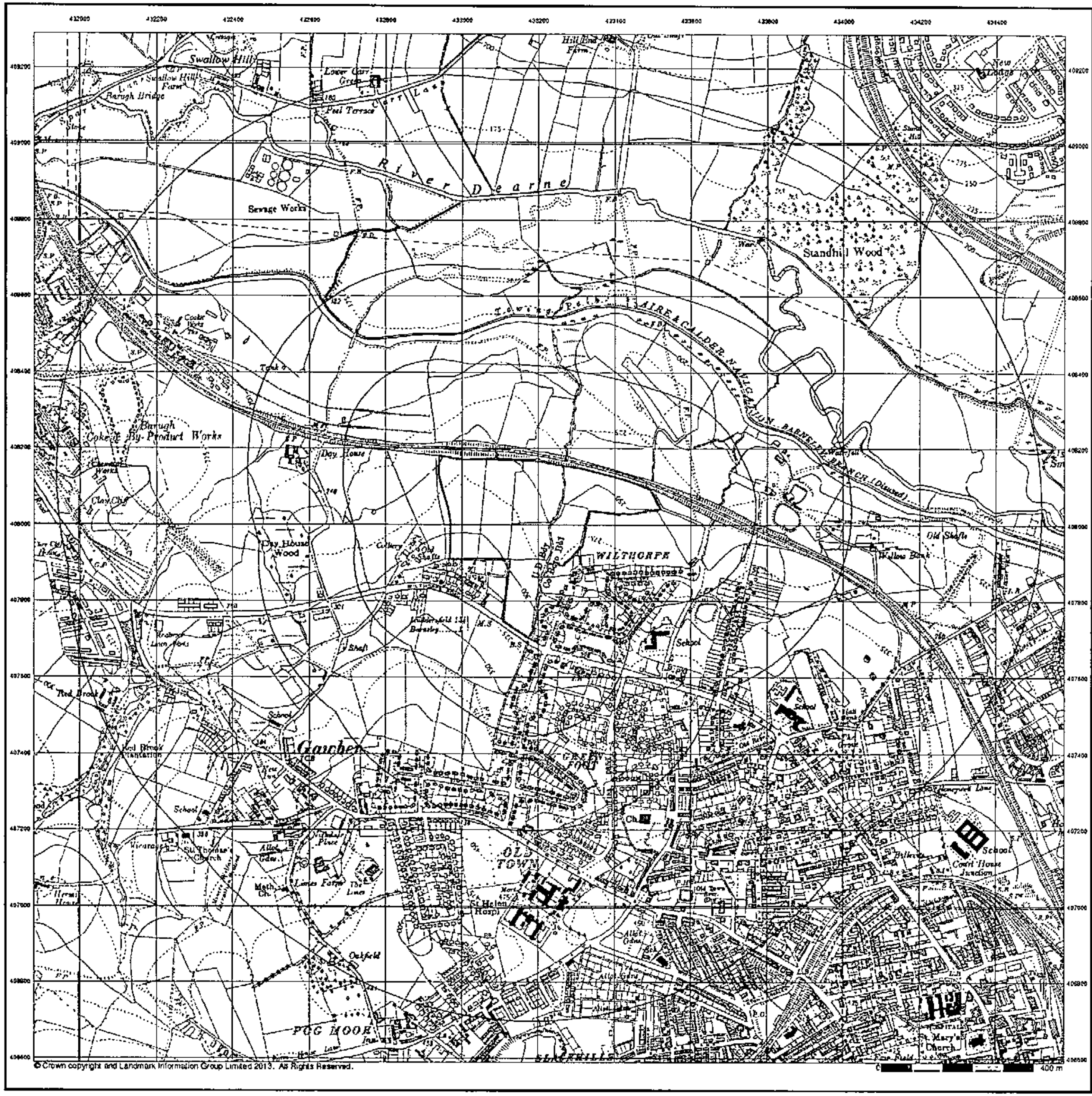
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Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

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Ordnance Survey Plan

Published 1956

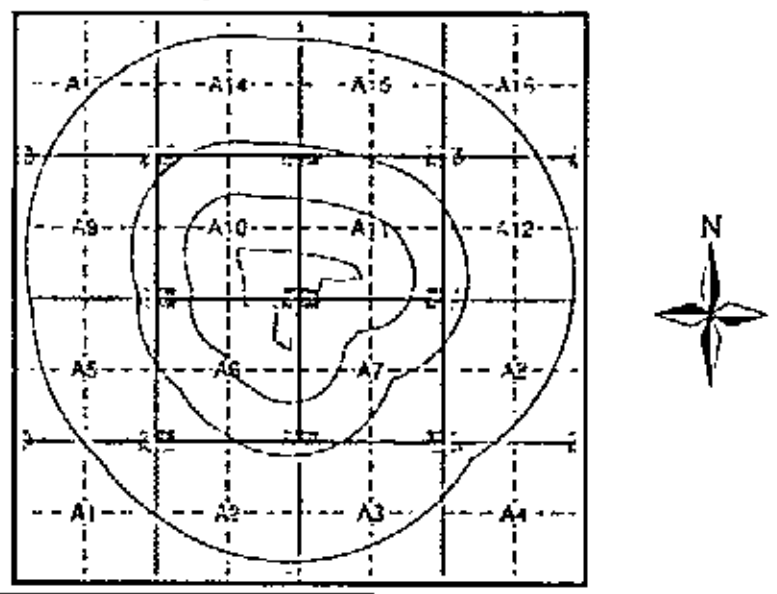
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30NW
1956
1:10 560

Historical Map - Slice A



Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

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Ordnance Survey Plan

Published 1966

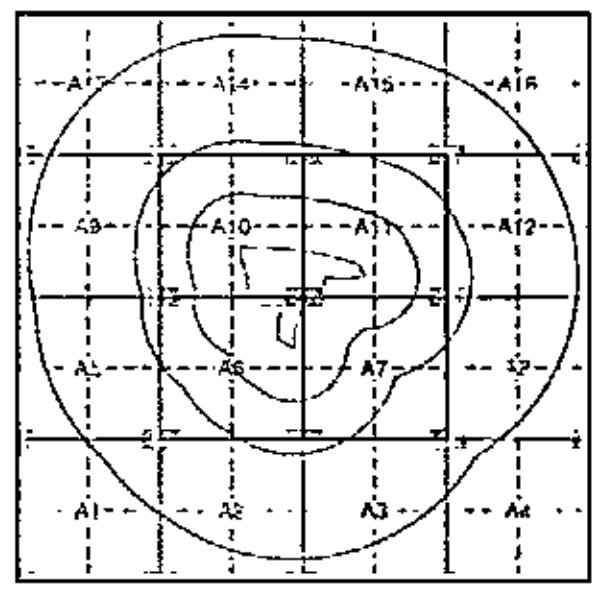
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30NW
1966
1:10,560

Historical Map - Slice A



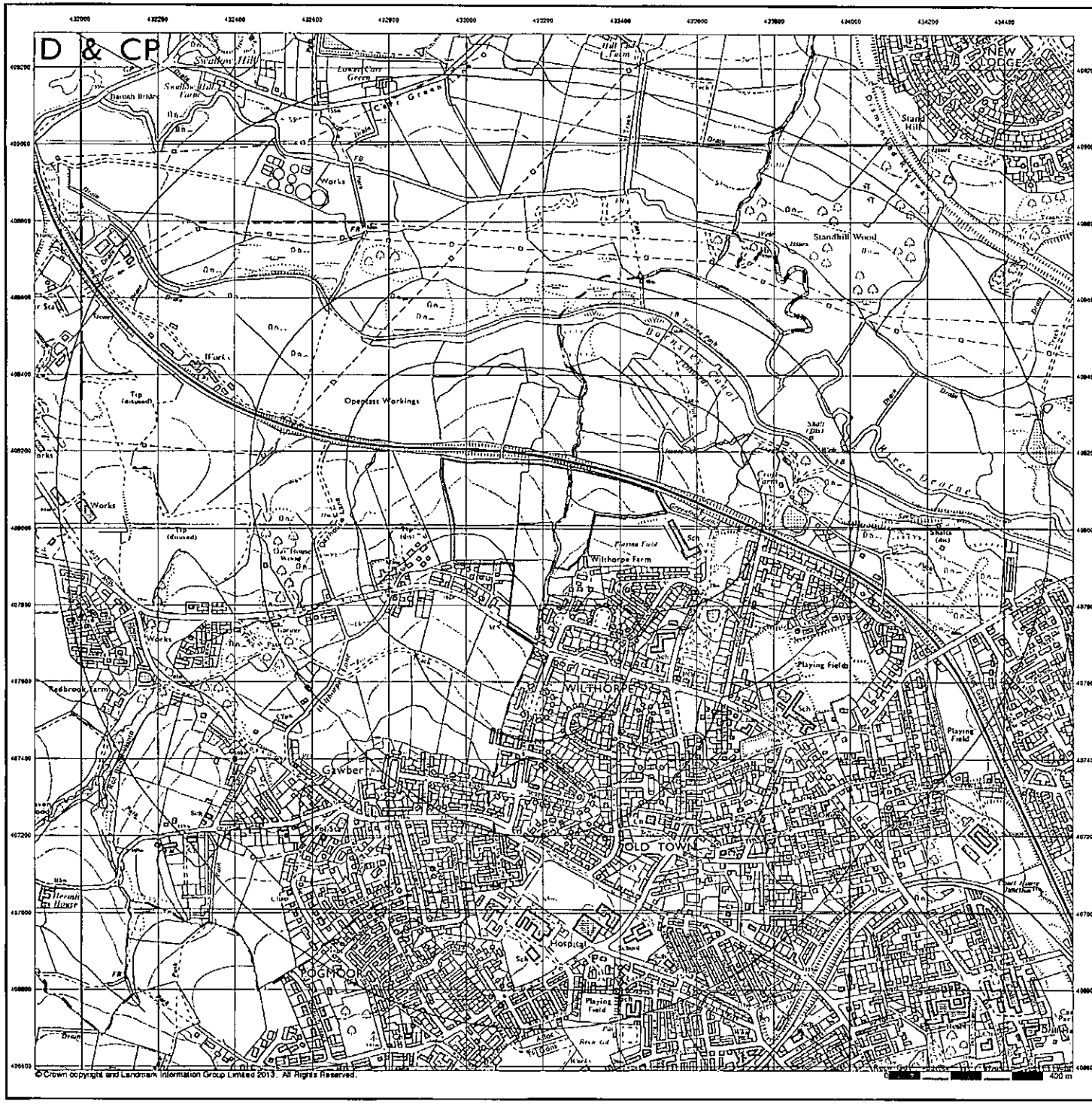
Order Details

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Customer Ref: Wilthorpe Road, Barnsley
National Grid Reference: 433200, 407990
Slice: A
Site Area (Ha): 12.7
Search Buffer (m): 1000

Site Details

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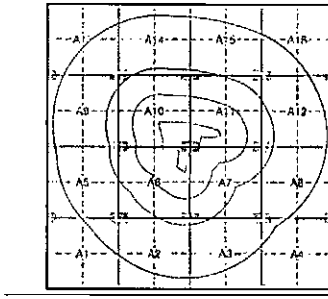
Ordnance Survey Plan
Published 1973
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30NW
1973
1:10,000

Historical Map - Slice A



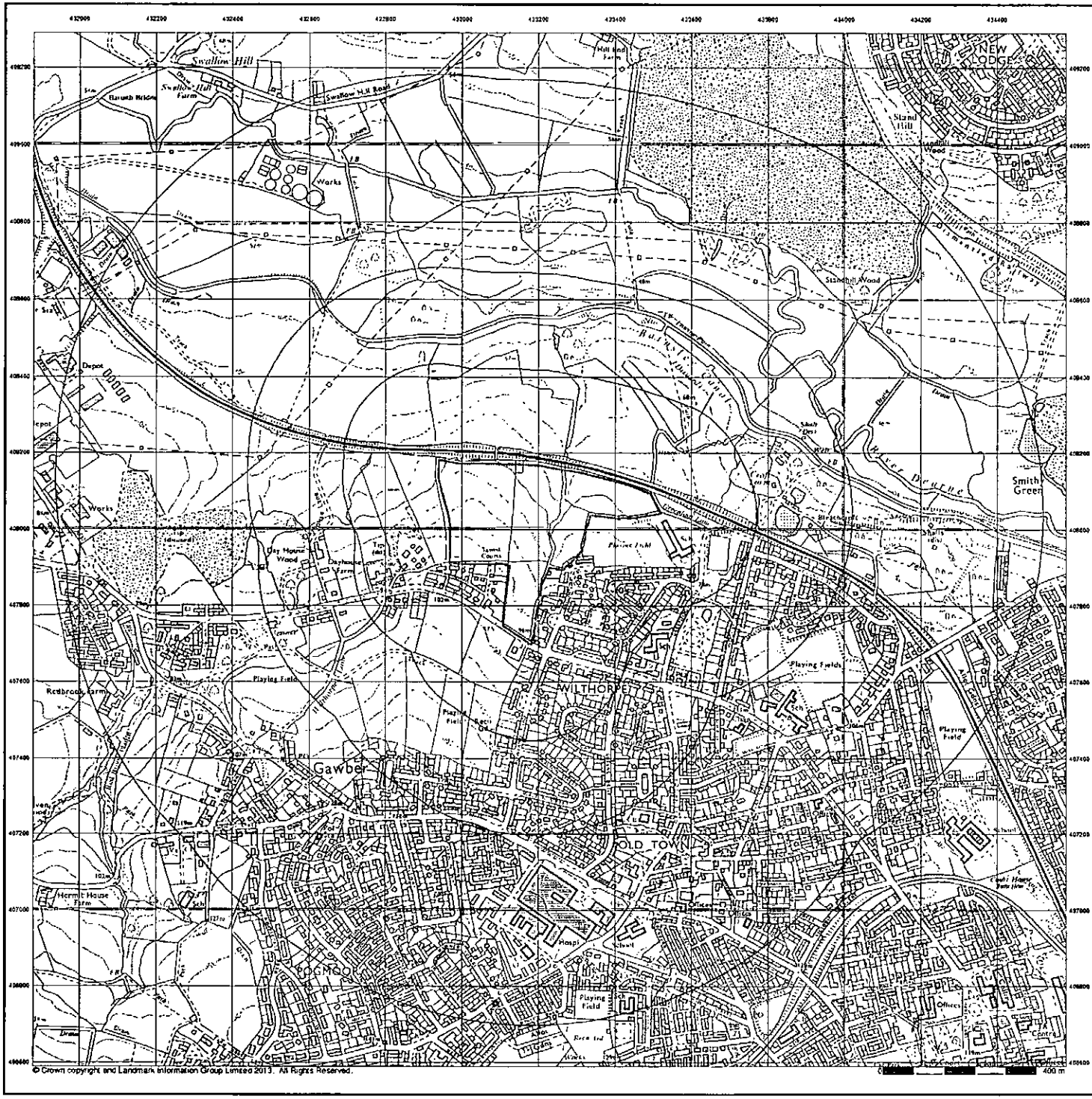
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Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

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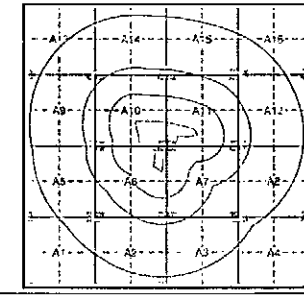
Ordnance Survey Plan
Published 1983
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30NW
1983
1:10,000

Historical Map - Slice A



Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

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sirius

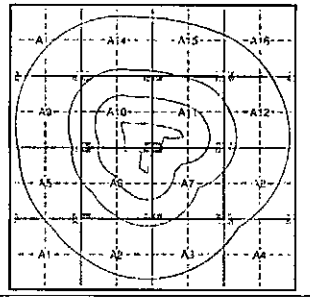
Ordnance Survey Plan
Published 1993
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30NW
1993
1:10,000

Historical Map - Slice A



Order Details

Order Number:	51060043_1_1
Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

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10k Raster Mapping

Published 2006

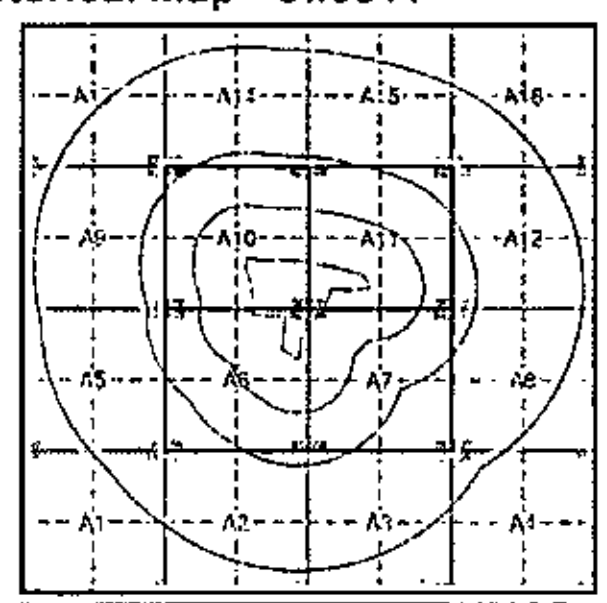
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SE30NW
2006
1:10,000

Historical Map - Slice A



Order Details

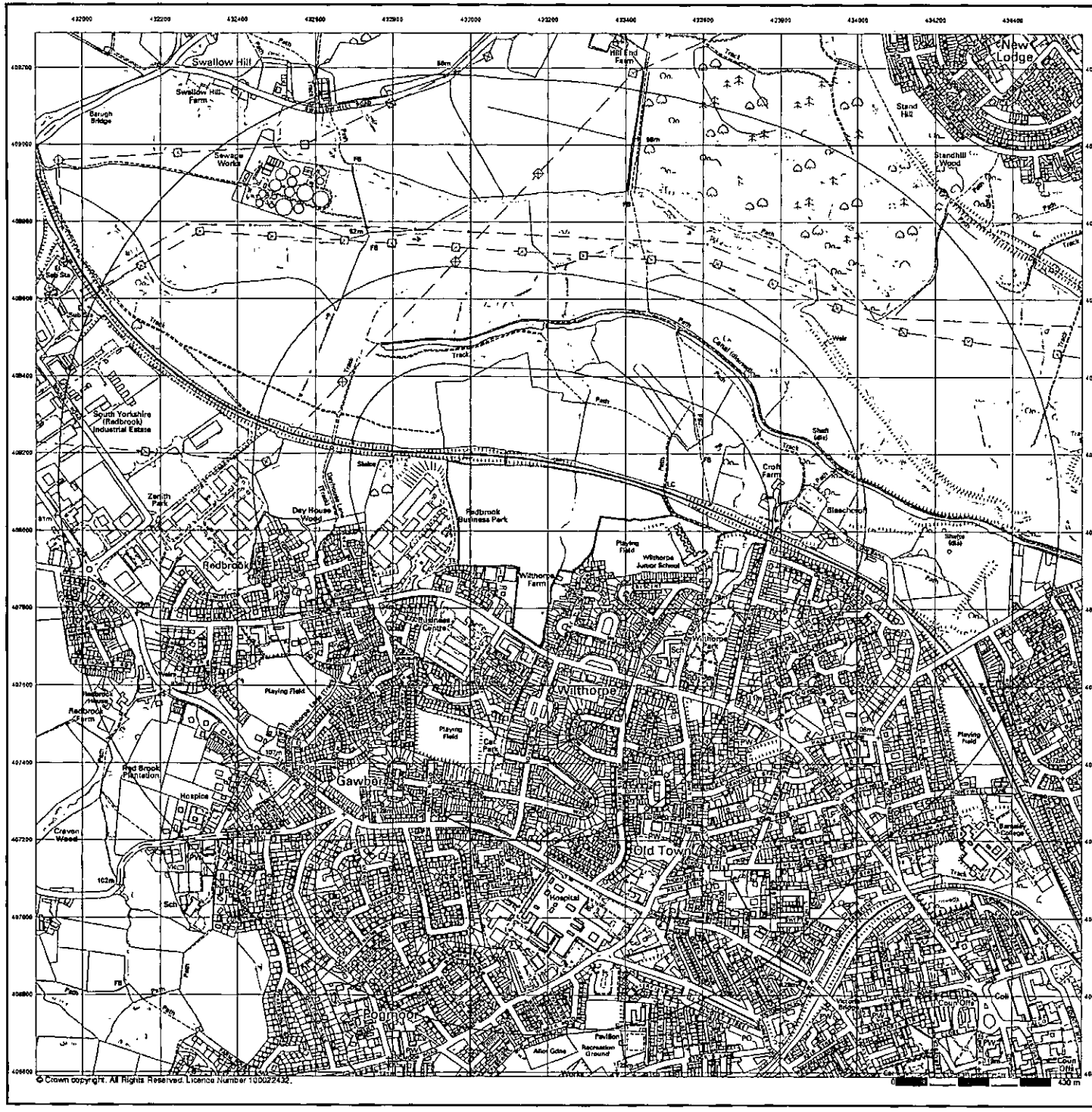
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Customer Ref:	Wilthorpe Road, Barnsley
National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

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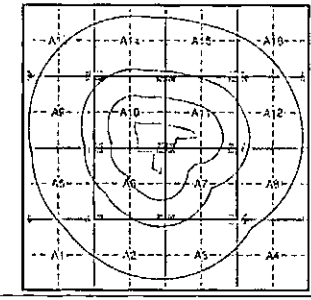
10k Raster Mapping
Published 2013
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SE30NW
2013
1:10,000

Historical Map - Slice A



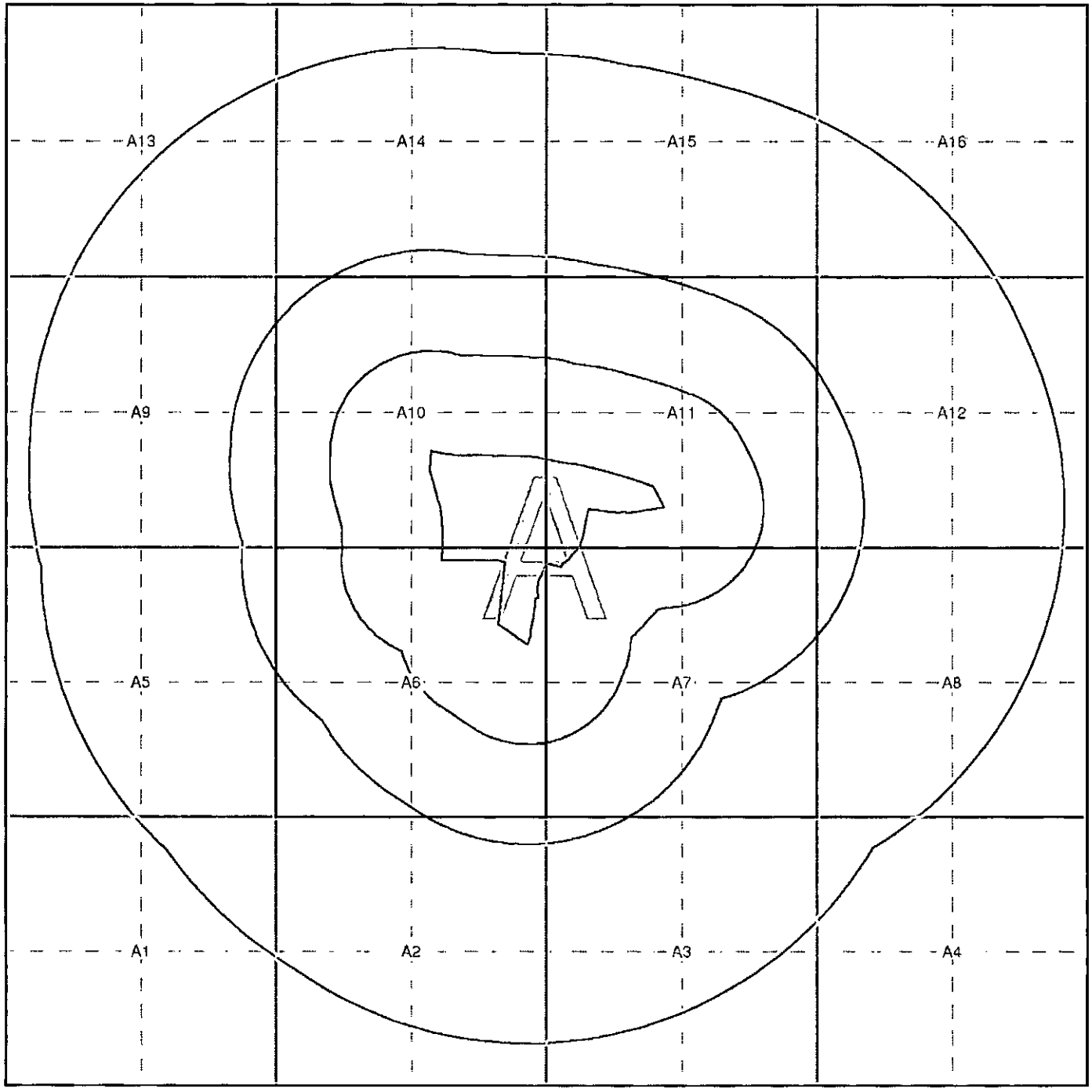
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National Grid Reference:	433200, 407990
Slice:	A
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Ordnance Survey Licensed Partner

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms P Coulson, Sirius Geotechnical & Environmental Ltd,
4245 Park Approach, Thorpe Park, Leeds, LS15 8GB

Order Details

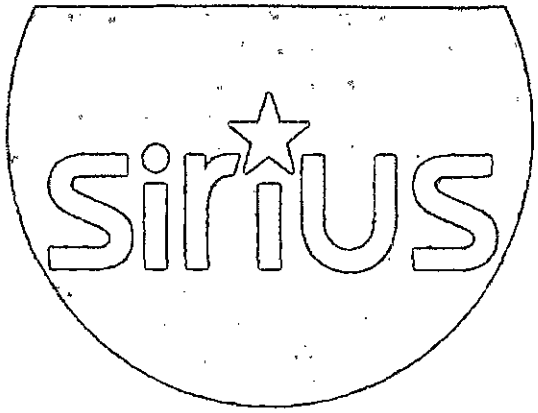
Order Number:	51060043_1_1
Customer Ref:	Willthorpe Road, Barnsley
National Grid Reference:	433170, 408020
Site Area (Ha):	12.7
Search Buffer (m):	1000

Site Details

Land North of Willthorpe Road, Barnsley, South Yorkshire, S75 1JN

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APPENDIX C

FGB MINERALS COAL MINING RISK ASSESSMENT

COAL MINING RISK ASSESSMENT

In respect of

PROPOSED RESIDENTIAL DEVELOPMENT

at

WILTHORPE ROAD

BARNSLEY

Prepared by: FGB Minerals

Prepared for: Persimmon Homes

LAND AT WILTHORPE ROAD BARNSLEY
COAL MINING RISK ASSESSMENT

Report date:	23 September 2013
Report prepared by:	Richard Steadman Bsc(Hons), MRICS, Associate Member RTPI
Report confirmed by:	John Carlon Eur Ing, B Eng(Hons), C Eng, MIMM, MRICS, MIQ, MCIWM

FGB Minerals Ltd
Butterfield House
59 Oakenshaw Lane
Walton
Wakefield
WF2 6NJ

LAND AT WILTHORPE ROAD BARNSLEY
COAL MINING RISK ASSESSMENT

1 Introduction

1.1 This report has been prepared to support a planning application submitted to Barnsley Metropolitan Borough Council by Persimmon Homes on behalf of the owners of land located to the north of Wilthorpe Road, Wilthorpe, Barnsley.

The application is in respect of proposed residential development.

1.2 The proposed development is located in an area defined as being of risk from previous coal mining activities.

1.3 The applicant has therefore commissioned FGB Minerals to prepare and submit a Coal Mining Risk Assessment in order to assess the impact on the proposal in accordance with the requirements of the Coal Authority which is a statutory consultee in respect of planning applications.

2 Site Location and Description

2.1 The proposed development site at Wilthorpe Road is located to the north of the A635 Huddersfield to Barnsley road, approximately 2km (1¼ miles) north west of Barnsley town centre.
(Grid Reference 433170, 408016).

2.2 The land extends to 12.6 hectares (31.39 acres) and presently comprises arable and grass fields falling slightly to the north (1 in 25) towards the railway. The centre of the site is approximately 82 metres AOD.

2.3 The location is predominantly urban comprising a mixture of old and new housing, schools and commercial premises. To the north of the land is the Barnsley to Wakefield railway; to the east lies playing fields of the Wilthorpe Primary School and housing along Wilthorpe Avenue and Wilthorpe Farm Road; to the south on the opposite side of the A635 is housing and business premises; to the west are commercial premises, private housing and the Barnsley Tennis Club.

2.4 To the west is Redbrook Business Park, built on the site of the former Redbrook colliery which closed in 1987. The former colliery site contains the locations of 3 historic landfill areas between 12 and 190 metres from the site boundary. These landfill areas were operated after the closure of the colliery and before the business park was built.

3 Description and Layout of Proposed Development

3.1 The proposal comprises housing development on 7.22 hectares, 5.33 hectares of "green space" and an extension to accommodate additional courts for the adjoining Barnsley Tennis Club.

3.2 The housing development will cover 2 areas separated by the existing stream, which will be linked by a crossing point over the stream. The ecological value of the watercourse will be enhanced as part of the development.

3.3 Access to the development will be from the A635 Wilthorpe Road. At the point of access, the existing highway will be widened in order to accommodate a dedicated right turn lane into the development site.

3.4 A secondary, emergency access will be formed at the existing access track through Redbrook Business Park

4 Scope of Coal Mining Risk Assessment

4.1 The purpose of this Coal Mining Risk Assessment is to:

- Present a desk-based review of all available information on the coal mining issues which are relevant to the application site;
- Use that information to identify and assess the risks to the proposed development from coal mining legacy, including the cumulative impact of issues;
- Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development; and
- Demonstrate to the Local Planning Authority that the application site is, or can be made, safe and stable to meet the requirements of national planning policy with regard to development on unstable land.

5 Sources of Information used to Inform this Report

5.1 Information for this report is derived from the following sources:

- A "Commercial Enviro All-in-One" report combining a Groundsure Screening Report and a Coal Authority CON29M reference 51000148183001 dated September 20 2012. This includes site history based upon historic Ordnance Survey maps of the area.

- Geology Survey of England and Wales Sheet 274, based on the 1850 survey map, published in 1855 with the addition of geological information in 1871. Scale 6 inches to 1 mile.

- Geological Survey of England and Wales Edition of 1933 based on the 6 inches to 1 mile Yorkshire (West Riding) Sheet CCLXXIV NE.

- Local knowledge of the landowners.

6 Geology of the Site

6.1 The site lies on the southern flank of the River Dearne valley in a suburban agricultural area of Barnsley, south Yorkshire, within the Nottingham, Derbyshire and Yorkshire Coalfields Character area.

6.2 The site is underlain by mudstone, siltstone and sandstone with a Secondary A Aquifer in the permeable layers within the Bedrock Geology Legend. These permeable layers are capable of supporting water supplies at a local rather than strategic scale, and in some cases form an important source of base flow to rivers These are generally aquifers formerly classified as minor aquifers.

6.2 The site overlies the Pennine Middle Coal Measures

6.3 No data has been found relating to superficial ground and drift geology.

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

7 Coal Authority Mining Report

7.1 The non-residential Coal Authority Mining Report (ref: 51000148183001) contains the following information regarding past, present and future coal mining activities affecting the development of the site.

7.2 Underground coal mining

The site is in the likely zone of influence from underground workings in 7 seams of coal located at 40m depth to 420m depth, last worked in 1987.

Any ground movement from these coal workings should have stopped by now.

The site is not in the likely zone of influence of any present or predictable future workings, although reserves of coal exist in the local area which could be worked in the future.

7.3 Subsidence

No notice of risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

7.4 Mine entries

Coal Authority records indicate that no mine entries within, or within 20m of the land. There are two mineshafts within the former Redbrook colliery which were filled prior to the development of the Business Park.

7.5 Opencast coal mining

There has been no past opencast working within or near to the site. The property does not lie within 200m of the boundary of any present opencast site.

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The property is not within 800m of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

7.6 Mine gas

There is no record of mine gas emission.

7.7 Subsidence and hazards

There has been no damage notice or claim for the property. There have been 3 claims from residential properties located within 50m of the site, located to the south west in "The Crescent". The site itself has not been subject to remedial works by the Coal Authority.

The property is in an area for which unrevoked notices of entitlement to withdraw support were issued in 1956 & 1977 and 1978.

7.8 Radon

It is estimated that 3-5% of properties in the area have the potential to be affected by Radon. The developer will seek appropriate advice regarding Radon protection from the Health Protection Agency (HPA).

7.9 The site is not located in a Brine Compensation Area.

7.10 Flooding

The site does not lie within 25 metres of an Environment Agency floodplain.

8 Site History

8.1 Historic mapping from 1850 - 1854 shows the site and the surrounding area as largely open agricultural land. The site comprises seven fields

8.2 The Geology Survey of England and Wales Sheet 274, based on the 1850 survey map, published in 1855 shows the following colliery locations:
"Willthorpe Old Pit" approximately 50m to the east of the site boundary which is now part of Wilthorpe Farm Road.
"Gawber Colliery" north of the railway approximately 50m north east of the site boundary which is now agricultural land.
"Gawber Old Colliery" north of the railway approximately 270m north of the site boundary which is now agricultural land.

The map also indicates a "Sand Pit" located at a point now occupied by dwellings on Wilthorpe Farm Road.

8.3 The 1932 Geological Survey map records the mine entrances at Willthorpe Old Pit (204FT to Barnsley seam) and Gawber Colliery (225FT to Barnsley seam). It also records Redbrook Colliery as "Old Shafts" (188FT to Barnsley seam).

ADDITIONAL INFORMATION OBTAINED FROM HISTORIC MAP RESEARCH FROM THE 1940s THROUGH TO THE PRESENT DAY WILL BE INCLUDED HERE

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9 Identification and Assessment of Site Specific Coal Mining Risks

9.1 The table below summarises the potential risks associated with coal mining legacy for the proposed development site, identified from the geological map, historic maps and Coal Authority records.

Coal Mining Issue	Y	N	Risk Assessment
Underground coal mining (recorded at shallow depths)	√		Low
Underground coal mining (probable at shallow depths)		√	Low
Mine entries (shafts and adits)		√	Low
Coal mining geology (fissures)		√	Low
Record of past mine gas emissions		√	Low
Recorded coal mining surface hazard		√	Low
Surface mining (opencast workings)		√	Low

10 Shallow Underground Mining

10.1 The Geological map indicates that several seams of coal lie beneath the land and the Coal Authority suggests that 7 seams have been worked. This would be from the former Redbrook colliery, the mineshaft of which was located approximately 100m to the west of the site boundary.

10.2 However, the geological map shows that 8 seams are recorded to have been worked from Redbrook comprising:

Depth (feet)	Seam	Thickness (feet/inches)
188	Barnsley	8'6"
343	Swallow Wood	3'8"
665	Fenton	3'7"
719	Parkgate	
810	Thorncliffe	5'7"
934	Fourfoot	2'7"
1044	Silkstone	3'4"
1216	Whinmoor	4'0"

10.3 The geological map also indicates that the coal seams dip at an angle of 5° in an east-north-east direction. Indeed, a further mineshaft located close to Wilthorpe Farm indicates that the Barnsley seam is deeper at 204 feet.

10.4 It is widely accepted that to achieve a safe thickness of rock cover over a worked coal seam, 10 times the seam thickness will be adequate. Hence, 188 feet of cover above the 8'6" seam thickness, represents adequate thickness of cover.

10.4 The seam is overlain by a thick bed of laminated sandstone that extends beyond the proposed site. The shaft at Redbrook is likely to have been excavated through the sandstone and lined with sandstone walling dressed from the stone. The Barnsley seam is 8'6" thick (2.58 m) and the migration of the void left from coal mining can be taken to be 10 times the seam thickness. The migration of a void would be over the tunnels in the mine or where the pillars of coal have been taken out and would migrate some 20 feet (6.1 m) above the coal mine horizon. The migration of the void as it is overlain by sandstone would separate the bedding in the sandstone and could allow blocks of stone to subside into the mine workings. With sandstone it is unusual for crown holes to appear at the surface as is common in shale and mudstone. The sandstone acts as a plinth above the seam to settle slowly over the coal seam.

11 Mitigation Strategy Proposed

11.1 Shallow Workings

The shallowest coal workings are recorded at 188 feet (57.3m) beneath the surface. Prior to submitting a planning application, the applicant will conduct a ground survey, including drilling boreholes to establish the nature of the sub-surface strata and whether or not voids are present.

11.2 At this time, no special measures are anticipated regarding the proposed housing development building or its foundations which are expected to be of standard construction. However, should the ground survey suggest otherwise, then details of non-standard foundations such as concrete raft or piling will be included in the planning application.

11.3 Voids

In a similar manner, due accord will be given if the ground survey identifies voids and appropriate action, such as grouting, will be taken to protect the housing development.

11.4 Radon

The site is located in an area likely to be affected by Radon. Therefore, advice will be taken from the HPA on what Radon protective measures will be required.

11 Conclusion

11.1 This report has been prepared in support of a planning application for residential development within the Barnsley Urban area. The purpose of the report is to satisfy the Coal Authority and hence the Local Planning Authority regarding risk associated with former coal mining.

11.2 The site is underlain by coal working at a depth ranging from 40m to 420m. The shallowest coal, the Barnsley seam, is sandwiched between layers of sandstone. The coal seams are likely to have been worked from Redbrook colliery (100m west of the site). The maximum depth of working 8 seams was 420 metres. All workings within the site ceased in 1987.

11.3 The intervening sandstone has protected the surface from instability caused by the underground workings. There is no record of subsidence affecting the site although residential properties within 50m of the site boundary have been affected in the past. It is likely that any ground movement will have ceased.

11.4 There are no mine entries within the site. The former Redbrook colliery is located 100m to the west of the closest part of the site. However, the bedrock sandstone provides stability to the mine entry so there is no evidence of instability.

11.5 The foundations for the proposed residential properties will be designed to account for former mining with prior approval by the Coal Authority.