Report type:	Desk Study
Site:	Former Elsecar Railway Station, Hill Street, Elsecar, Barnsley.
Client:	John Church Planning Consultancy Ltd
Ref:	GRM/P3987/DS.1
Date:	March 2007

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1.0 INTRODUCTION

1.1 PREAMBLE

GRM was instructed to carry out a Desk Study by John Church Planning Consultancy Ltd.

The desk study and site inspection forms Phase I of the assessment allows the formulation of the geotechnical and geo-environmental settings. A future Phase II would comprise an intrusive ground investigation and associated laboratory testing.

The Client proposes to develop the site for residential housing and it has been assumed in the following assessment that the development will be in line with current planning guidance for two to three storey housing with residential gardens.

The client has not provided GRM with any existing reports or highlighted any potential hazards.

This desk study is intended to provide information that will assist decision making by identifying potential ground engineering and contamination issues, and making recommendations for further investigation if required.

GRM standard limitations of reporting are provided on the back cover of this report.

Potential Geotechnical/General Hazard(s) reported by the Client include:
None identified.

Potential Receptor(s) communicated by the Client include:
None identified.

Potential Contamination Source(s) communicated by the Client include:
None identified.

1.2 OBJECTIVES OF THE DESK STUDY

The specific requirements of the client were to carry out a Desk Study for the site.

The principal aims of the Desk Study were as follows:

a) Obtain information, from easily accessible sources, about the soil and groundwater conditions within the area of the site.

b) Determine the possible ground related geotechnical and contamination hazards within the site boundaries that may affect the proposed development.

c) Provide recommendations for a Phase II ground investigation.

d) Provide preliminary development recommendations

2.0 PHASE I GEO-ENVIRONMENTAL ASSESSMENT

2.1 INFORMATION SOURCES

The following information sources have been used for the identification and assessment of potential ground hazards:

- Relevant British Standards.
- British Geological Survey (BGS) Geology Map Scale 1:25,000 Sheet SE 30 Barnsley Solid and Drift Edition.
- British Geological Survey (BGS) Geology Map Scale 1:10,000 Sheet SE 30 SE.
- Historical Ordnance Survey (OS) Maps.
- Coal Authority Mining Report.
- Environmental Data Report (Landmark).
- Environment Agency Website: http://www.environment-agency.gov.uk/.
- DEFRA/Environment Agency R&D Publication CLR documents and DoE Industry Profiles.
- Building Research Establishment (BRE) Digest 211 1999 Radon: guidance on protective measures for new dwellings.
- NRPB Publication W26, Radon Atlas of England and Wales, 2002.
- Client supplied information including: the location of the site.

Any other technical references used in the preparation of this document are detailed in the main text.

2.2 SITE DESCRIPTION

2.2.1 Geographical Setting

The site is located within Elsecar, which is an outlying village east of Hoyland Nether approximately 7km south east of Barnsley town centre. The National Grid Reference (NGR) for the approximate centre of the site is SE 380 003 as shown on the Site Location Plan presented in Appendix A.

The site covers an area of approximately 1.39 hectares. The north eastern boundary is formed in part by the former station office and a 2m high brick wall leading to Hill Street with shops, residential housing and a church beyond. Access to the site is gained via Hill Street. The south eastern boundary is formed by a wooden three rail fence leading in part to a paddock, residential garden and Public House car park. The south western boundary is open to rough grassed land. The north western boundary is formed in part by a 2m high security fence and concrete panel fence with the Barnsley to Sheffield Railway Line and station platform beyond.

2.2.2 Site Inspection Observations

The Site Features Plan and General Site Photographs presented in Appendix B illustrate the salient observations made during the site inspection undertaken on 22nd February 2007.

The site is an elongated strip of land formed by a relatively level plateau that gently slopes to the south west. It appears that site levels have been formed by building up the ground on the south eastern boundary relative to the local topography which is sloping down hill to the south east.

The embankment along the south eastern boundary is approximately 15 to 25m high and is overgrown with brambles and various trees, with the majority being hawthorn. There is evidence of slope instability occurring, with the angle of repose in areas being in excess of 45°, with large amounts of spoil being retained by snagging behind trees. At the bottom of the slope the land becomes gently sloping in accordance with the hillside and is overgrown with brambles and hawthorn. A small drainage ditch/watercourse is present running parallel to the boundary and is approximately 0.5m wide and 0.5m deep, water is evident in some parts of the ditch. Debri including old tyres, brick, concrete and wood are present amongst the undergrowth apparently being derived from the spoil heaps above. At the crest of the slope an approximately 2m high bund has been formed along the majority of the crest comprising clay, brick, concrete and tarmacadam. This is now overgrown with rough grass and weeds. In front of the bund, tipped spoil heaps of builders rubble are evident.

An approximately 2m high bund has been formed along the north western boundary comprising of similar material as the aforementioned. An old railway platform is present between the bunds along this boundary. In part and just outside the north western boundary mature trees are present before the railway line and the platform.

Two areas of the site have been fenced off to form compounds. The first includes the former station office in the northern corner of the site. An unbunded fuel tank was noted to be within the compound. The second compound is within the central portion of the site and bisects the site from the northwestern boundary to the south eastern boundary. Storage containers are sited along the fence. Material used for underground services and highways maintenance are stored within these areas.

The majority of the ground surface comprised of hardcore and roadstone with areas in the south western portion of the site containing ash, coal and clinker. An area adjacent to the former station office is covered by tarmacadam. Poor vegetation was noted to be adjacent to the hardcore trackway that leads to the land beyond the south western boundary.

Overhead cables comprise B.T. lines going to the former station office leading from a telegraph post outside the north eastern boundary. A man hole cover was noted near the entrance to the site, possibly storm or sewer. A lamp post within the northern compound indicates electricity cables are present underground.

An arboreal specialist should conduct a tree survey should cohesive strata be found on site.

Invasive plant species were not observed during the site walkover, however GRM are not specialists (see section 2.11).

Potential Geotechnical/General Hazard(s) identified during site inspection:
Trees in association with shrinkable strata – potential deeper foundations. Existing station office – buried structures, deeper foundations. Slope instability – form easement zone, re-profile. Underground services – require disconnection and/or diversion.

Potential Receptor(s) identified during site inspection:
Drainage ditch/watercourse.

Potential Contamination Source(s) identified during site inspection:
Extensive and deep made ground. Unbunded fuel tank. Spoil mounds.

2.3 HISTORICAL DEVELOPMENT OF THE SITE

A study of historical Ordnance Survey maps has been undertaken to identify any potentially contaminative former land uses and potential foundation hazards. The main historical features of the site and surrounding area are summarised below and are shown on the historical maps presented in Appendix C.

1855: The site is shown to be within five fields. The north eastern portion of the site is bounded by Stubbs Lane.

Dwellings are shown opposite the north eastern boundary with the area indicated as the 'Stubbin'. The village of Elsecar is shown approximately 600m to the south east with an adjacent Iron Works to the south of the village. Two wells are shown approximately 150m north and south east of the site. Milton Iron Works is shown approximately 350m west south west of the site, a large pond or lake is shown at the eastern side of the iron works. Numerous 'Old Shafts' and 'Air Shafts' are shown beyond 200m of the site in the surrounding area.

1892 and 1893-94: A small building is shown in the south western corner of the site. The lane adjacent to the north eastern boundary is indicated as Hill Street.

Numerous pumps are shown within the gardens of the area indicated as the 'Stubbin' opposite the north eastern boundary. A Burial Ground is also shown within this area approximately 40m north east of the site. Local development has occurred with further residential housing north and south of the site. Foundries are shown approximately 90m south of the site. An area of ground is shown to be raised approximately 80m west south west of the site, this ground maybe associated with spoil from Milton Iron Works. A railway line runs in a E/W direction approximately 140m south of the site from Milton Iron Works to Elsecar Goods Station. Simon Wood Colliery is shown approximately 650m east of the site.

1902-3 and 1905-07: The site is shown to comprise of a railway sidings and Goods Shed leading from the Chapletown Branch Extension which forms the north western boundary of the site and runs in a NE/SW direction. An embankment is shown adjacent to the south eastern boundary, the ground being raised to form a level area

for the sidings. Four buildings of various sizes are shown at the north eastern boundary adjacent to Hill Street. The building in the south western corner of the site is no longer shown.

A stream is shown approximately 30m south of the south western corner of the site running in a E/W direction. A further stream is shown 650m south east of the site flowing in a north easterly direction towards Elsecar.

1930: The southern portion of the site is shown as heathland. No other significant changes are indicated to the site.

The railway line approximately 140m south of the site is shown to be removed, a track to a Gravel Pit is shown to lead off the disused railway, which is approximately 110m south west of the site. Development of the area beyond the Chapeltown Branch Extension has occurred comprising of a school, picture theatre, tennis ground, bowling green and residential properties.

1938-48: No significant changes are indicated to the site.

Elsecar Main Colliery is shown approximately 800m east of the site.

1956-57: The site is indicated as Elsecar and Hoyland Station. The building in the north eastern corner of the site is indicated as the 'Railway Booking Office', a platform is shown adjacent to the north western boundary. Buildings shown on earlier editions are shown to be removed along the north eastern boundary. An Issue is shown near the eastern corner of the site below the embankment and flowing in a south westerly direction within the boundary of the site. This joins the stream which flows in an easterly direction to a Sink approximately 150m south east of the site.

Two further Issues are shown approximately 70m west and south west of the site. The Gravel Pit south west of the site is no longer indicated. The large pond 250m west south west of the site is no longer shown presumed infilled. A short mineral railway is shown leading from an air shaft up a ramp to the disused railway approximately 250m south west of the site. The Burial Ground north east of the site is no longer indicated.

1968-76 and 1965-66: The sidings and goods sheds are shown to be removed from the site. Five small structures are shown near the north eastern boundary.

The land east of the site where former ponds were situated proximal to Milton Iron Works are now indicated as 'Recreational Ground' and a 'Refuse Tip'. The latter being approximately 420m away from the site.

1980-82: The central and north eastern portion of the site is shown to be contained within boundaries.

The Refuse Tip to the east is no longer indicated presumed inactive. The mineral railway to the south west is no longer shown.

1989-91: No significant changes are indicated to the site.

Elsecar Main Colliery is no longer shown.

1993: No significant changes are indicated to the site or surrounding area.

2000: No significant changes are indicated to the site or surrounding area.

2004: No significant changes are indicated to the site or surrounding area.

The hazards identified are summarised in the table below.

Potential Geotechnical/General Hazard(s) identified on OS Maps:
Old foundations and obstructions – deeper foundations. Issues and drain/watercourse – poor founding strata / easement zone / culvert or divert. Embankment – instability / easement zone.

Potential Receptor(s) identified on OS Maps:
Issues and drain/watercourse.

Potential Contamination Source(s) identified on OS Maps:
Made ground associated with previous site use as railway sidings (moderate risk). Ground gases associated with made ground, proximal burial ground and infilled ponds west of the site.

2.4 ANTICIPATED GEOLOGY

The BGS geological sheets for the area indicate that the site is underlain by the Westphalian B Coal Measures. No superficial deposits are shown to be present on the site. Therefore, a weathered profile of the Coal Measures would be expected comprising of clay and sands with inclusions of coal. The geological map also indicates that the eastern portion of the site is overlain by Made Ground, no indication of thickness is shown.

The Coal Measures is indicated to comprise of mudstones, siltstones, sandstones, seat earth and coal seams. Two conjectured coal seams are shown to be present on the site, the Kent Thick Coal is shown to sub crop at the northern corner of the site in an E/W direction and an unnamed seam is shown to subcrop in an E/W direction in the southern portion of the site. Sandstone is also indicated to be present in the southern portion of the site.

The site is bound locally to the north east by the Elsecar Fault down thrown to the north east, and to the south east by the Hoyland Fault down thrown to the south west both have a strike direction of NW/SE.

Local dip direction in the Barnsley area is to the north east with a dip range of 3 to 9°.

The main worked seam which is reported on the geological map is the Barnsley Coal approximately 60m below the site. Further remarks regarding Coal Mineral Resources and Mining Risk Assessment are discussed in Section 2.7.

The Envirockeck Report indicates a low to moderate potential for landslide ground stability hazards for the site sourced from the British Geological Survey.

Potential Geotechnical/General Hazard(s) geological data:
Trees in association with shrinkable strata – deeper foundations. Granular deposits - potential low bearing capacity if high water table is encountered. Made Ground deposits – potential deeper foundations. Variable founding strata – potential deeper foundations and excessive differential settlement. Landslide instability hazards – easement zone/re-profile slope. Potential shallow worked coal seams – treatment required to stabilise.

Potential Receptor(s) from geological data:
None.

Potential Contamination Source(s) from geological data:
Made Ground. Ground gases from made ground and mine workings.

2.5 HYDROGEOLOGICAL INFORMATION

The Envirocheck report indicates the site to be underlain by a Minor Aquifer (Coal Measures) of variable permeability. Due to lack of observations within urban areas the soils are classified as high leaching potential as worst case vulnerability until proved otherwise.

The site is not within a Source Protection Zone. There are no groundwater abstractions within 1000m of the site.

Potential Geotechnical/General Hazard(s) from hydrogeological data:
None identified.

Potential Receptor(s) from hydrogeological data:
Minor Aquifer (Coal Measures).

Potential Contamination Source(s) from hydrogeological data:
None identified.

2.6 HYDROLOGICAL INFORMATION

The nearest surface feature is the Issue and drain/watercourse within the south eastern site boundary. This joins a stream to the south of the site which flows in an easterly direction to a sink approximately 150m south east of the site. The surface water features are considered to represent potentially sensitive receptors due to their proximity.

There are no recorded pollution incidents to controlled waters which are considered to affect the site.

The Environment Agency website and Envirocheck Report indicates the site is not within a fluvial floodplain, and therefore the site is not at risk from river flooding.

There are no current surface water abstractions points within 1000m of the site.

Potential Geotechnical/General Hazard(s) from hydrological data:
Issue and drain/watercourse.

Potential Receptor(s) from hydrological data:
Issue and drain/watercourse.

Potential Contamination Source(s) from hydrological data:
None identified.

2.7 COAL MINERAL RESOURCES

2.7.1 COAL AUTHORITY REPORT AND GEOLOGICAL MAPS

The Authority's Online Directory (www.coalminingreports.co.uk) provides immediate online confirmation on entering a property postcode as to whether a coal mining search is necessary or not. This site is shown to require a Coal Authority Mining Report.

The Coal Authority report (Appendix D) states that the site "is in the likely zone of influence from workings in 11 coal seams at 40 to 390m depth last worked in 1979 and any ground movement from these coal workings should have stopped by now".

Furthermore, "in addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This may have been worked at some time in the past".

The report also states that there are no known coal mine entries on the site or within 20m of the site. However, the records may be incomplete. Consequently, there may be mine entries in the vicinity that the Coal Authority have no knowledge.

The Coal Authority has not received a damage notice or claim for the property since 1st January 1984.

Comparison of the Coal Authority information with local geological information suggests that the 11 recorded worked seams below the site are, Barnsley Coal, Shallow Wood Coal, Lidget Coal, Joan Coal, Flockton Thick Coal, Flockton Thin Coal, Fenton Coal, Parkgate Coal, Thorncliffe Coal, Silkstone Four Foot Coal and the Silkstone.

Comparison of the Coal Authority report and the geological information suggests the coal that may have been worked in the past, to be at or close to the surface are the Kent Thick Coal (conjectured to subcrop) and five thin un-named seams above the Barnsley Coal.

2.7.2 RISK ASSESSMENT

A mining risk assessment has been conducted using the above information. The information has been gained from the colliery shaft section of Elsecar Main Colliery, Shaft 1 taken from the BGS geological sheet for the area.

The BGS geological sheet suggests seams as tabulated below underlie the site.

Seam Name	Estimated minimum depth at north east boundary of the site (m)	Estimated minimum depth at south west boundary of the site (m)	Estimated maximum thickness (m)	Likelihood of workings
Kent Thick	3	Subcrop within site	0.75	Moderate
Un-named	12	Subcrop within site	Unknown	Low to moderate
Un-named	28.5	5.5	Unknown	Low to moderate
Un-named	45	22	Unknown	Low to moderate
Un-named	48	25	Unknown	Low to moderate
Un-named	57	34	Unknown	Low to moderate
Barnsley	63	40	3	High
Shallow Wood	117	94	2	High
Lidget	160	137	0.5	High
Joan	204	181	0.3	High
Flockton Thick	229	206	0.5	High
Flockton Thin	229	235	0.5	High
Fenton	273	250	0.3	High
Parkgate	303	280	3	High
Thorncliffe	325	302	0.75	High
Silkstone Four Foot	360	332	1.25	High
Silkstone	403	380	1.5	High

A general 'rule of thumb' is that in order to pose a negligible risk of instability at the surface a seam requires 10 times the worked thickness of competent rock cover. The recorded worked seam of the Barnsley Coal requires a minimum of 30m of competent

rock cover. However, the thickness of the overlying made ground is unknown and could be quite substantial, together with the uncertainty of the un-named overlying shallow seams being worked. Therefore, it is considered the site is a significant risk from shallow workings in these seams.

2.7.3 POTENTIAL RISK MANAGEMENT ACTIONS

The risk to future development is unacceptable with the available information and it is suggested that a rotary probe drilling investigation will be required to confirm the BGS geological map shaft records. If the results from the probe drilling indicate worked shallow seams then stabilisation works will be required.

Potential Coal Mining Hazards:
Potential worked shallow seams.

2.8 OTHER MINERAL RESOURCES

The historical mapping data does indicate the presence of other mineral extraction sites near the site, namely a Gravel Pit approximately 110m south west of the site on the 1930 O.S. map, now shown to be infilled. The geological map for the area indicates the site is not underlain by the same geology as the former Gravel Pit. Therefore, the risk of other mineral resources being below the site is considered to be negligible.

Potential Other Mining Hazards:
None identified.

2.9 ENVIRONMENTAL INFORMATION

Environmental database information has been acquired from Landmark Ltd. The report contains a considerable amount of data some of which is not relevant to this appraisal (e.g. air pollution controls). Therefore, the summary data is provided in Appendix E, along with copies of the sheets relevant to this appraisal. The full data set will be held on file by GRM.

In summary the following reported hazards relate to the proposed development:

- There is one BGS Recorded Landfill Site 64m west of the site at Cinder Cottage, Millhouses Street, Hoyland Nether. Type of waste not recorded, status of site unknown.
- There are two Local Authority Recorded Landfill Sites within 500m of the site, 271m west and 477m north, and both relate to Barnsley Metropolitan Borough Council. The last reported status and type of waste is unknown for both sites.
- There are is one Registered Waste Transfer Site 475m west of the site.
- There are no Pollution Incidents to Controlled Waters that may affect the site.

- There are three Contemporary Trade Entries within 250m of the site, Goldthorpe Car Centre (43m E), M D Patterns (65m E) and Stewarts Fabrications (182m E). None are considered to potentially affect the site.

- There are no Fuel Station Entries recorded within 1000m of the site.

Potential Geo-environmental/General Hazard(s) from Environmental data:
None identified.

Potential Receptor(s) from Environmental data:
None identified.

Potential Contamination Source(s) from Environmental data:
Landfill type gases from proximal landfills.

2.10 ARCHAEOLOGY

Archaeological information has not been sought as part of this desk study and has not been identified as an issue by the Client. Some Local Authorities require at least an initial archaeological appraisal for development sites. GRM can provide contact details of suitable professionals for such work. Archaeological investigations occasionally reveal ground-related problems from ancient times (prior to the 1st Edition OS maps) and can occasionally cause foundation and contamination development hazards.

Archaeological Hazards:
No known archaeological hazard.

2.11 INVASIVE PLANT SPECIES / ECOLOGY

Ecological issues can have a significant effect on developments. GRM is not a specialist in this topic and has not conducted an ecological survey. However, GRM endeavour to report easily recognisable issues such as; Japanese Knotweed and Giant Hogweed, badger sets etc when noted. No invasive plants species were noted during the site walkover.

Invasive Plant Species / Ecology Hazards:
No hazard identified.

2.12 RADON GAS (DESK STUDY ASSESSMENT)

The site has been assessed following the guidelines in "Radon: guidance on protective measures for new dwellings" (BRE 211 1999).

The site is not within an area recorded to require mandatory Basic or Full Radon precautions, as shown by a statistical analysis of radon in houses by the National

Radiological Protection Board (Annex A BRE211). The site is in an area where a geological assessment, to determine the need for basic Radon protection, is required (Annex B BRE211).

According to latest available information (NRPB Publication W26, Radon Atlas of England and Wales, 2002), <1% of homes are reported to have Radon levels above the 'Action Level' in this area.

The environmental report (Appendix E) suggests that based on information provided by the BGS (equivalent to a basic radon report), Basic Radon Protective Measures will be required in the construction of new dwellings or extensions.

Our assessment suggests that no radon protection measures are required. However, at this stage and until a detailed BGS Radon Report is obtained, Basic Radon protection should be considered.

Radon Hazard Assessment (Desk Study):
Basic Radon Protection Required.

3.0 SUMMARY OF POTENTIAL GEOTECHNICAL AND GEO-ENVIRONMENTAL HAZARDS

Potential hazards have been identified in earlier sections and are now summarised in tabular form, with their consequences and possible risk management actions.

3.1 GENERAL HAZARDS

General hazards are those that pose a threat to public safety, or site safety to personnel.

Potential Hazard	Consequence	Action
Live services	Danger to personnel	Inform relevant parties for disconnection.
Existing buildings	Danger to personnel	Demolition required – Health & Safety guidelines

3.2 GEOTECHNICAL HAZARDS

Geotechnical hazards are those that pose a danger to the stability and/or quality of the built environment.

Potential Hazard	Consequence	Investigatory Technique
Trees associated with shrinkable strata.	Deeper foundations	Trial pits and tree survey if required
Potential variable founding strata	Deeper foundations and/or differential settlement	Trial pits
Granular strata and high water table leading to low bearing capacity (low risk)	Widen footings and excessive settlement	Trial pits
Existing/previous foundations and obstructions	Deeper foundations	Trial pits
Slope instability	Easement zone	Trial pits
Made ground deposits	Deeper foundations	Trial pits
Issue and drain/watercourse	Poor founding strata / easement zone / culvert / divert	Trial pits
Potential shallow worked seams	Treatment to stabilise	Rotary boreholes

3.3 CONTAMINATION/ENVIRONMENTAL HAZARDS

These hazards have the potential to adversely affect human health, controlled waters and the built environment.

Source	Pathway	Receptor	Assessment Method
Made Ground associated with past and present land use	Direct Contact	End-User	See section 3.4
Made Ground associated with past and present land use	Infiltration	Minor Aquifer	See section 3.4
Made Ground associated with past and present land use	Potential overland runoff	Issue and drain / watercourse	See section 3.4
Ground gas associated with shallow mine workings, infilled ponds and burial grounds	Carbon Dioxide/Methane	End user	Gas Monitoring Survey
Made Ground associated with past land use	Carbon Dioxide/Methane	End User	Gas Monitoring Survey
Landfill type gases associated with proximal landfill sites	Carbon Dioxide/Methane	End user	Gas Monitoring Survey
Unbunded fuel tank	Direct Contact	End user	See section 3.4
Unbunded fuel tank	Infiltration	Minor Aquifer	See section 3.4
Unbunded fuel tank	Potential overland run-off	Issue and drain / watercourse	See section 3.4
Natural Strata	Radon	End user	Geological Assessment

3.4 CONTAMINANTS OF CONCERN

The DEFRA document CLR 8 and DoE Industry Profiles (Railway Land) have been used to assess likely contaminants from past land use and potential nearby industrial sources. For land uses where no profile is available, likely contaminants of concern have been selected by GRM based on past experience of similar sites.

Asbestos and PCBs are listed in the vast majority of profiles. PCBs are listed as the profiles expect electricity substations and switch boxes on all industrial sites. However, none have been recorded for this site and it is considered that PCB testing

will not be necessary. Asbestos will be tested for if there is visual evidence found within the ground during any subsequent fieldwork.

There are contaminants which are generally tested for as a matter of course as their prevalence on brownfield sites is renowned. These include: As, Cd, Cr, Pb, Hg, Se, Cu, Ni, Zn, Phenols, Cn (total), Sulphate (water sol), pH, and PAHs.

As part of any future ground investigation, samples will be analysed for the general contaminants listed above. If visual/olfactory evidence of petroleum hydrocarbon contamination is noted, then additional TPH (Total Petroleum Hydrocarbon) speciation testing will be undertaken. This should cover the most critical contaminants of concern listed in the DoE profiles.

4.0 PHASE I CONCEPTUAL MODEL

4.1 SOURCE-PATHWAY-RECEPTOR

The consideration of contamination is based upon the principles of risk assessment. Risk assessment is founded upon the use of so called 'source-pathway-receptor' principles in order to establish the presence, or potential presence, of a pollutant linkage.

To create a risk, contamination must have the potential to cause harm to susceptible targets or receptors such as humans, the water environment or the built environment. The potential for harm to occur requires three conditions to be satisfied:

- The presence of substances that may cause harm (SOURCE),
- The presence of a target which may be harmed (RECEPTOR),
- The existence of a plausible pollutant linkage between the source and the receptor (PATHWAY).

In the absence of a plausible pollutant linkage or pathway there is no risk. For a site not to pose a risk to the end-users or controlled waters the pollutant linkage must be broken.

The Phase I conceptual model diagram is illustrated in Appendix F and the components for soils, waters and gases explained in the following text.

4.2 POTENTIAL RISK TO HUMAN HEALTH

From the preceding information a conceptual model has been formulated which illustrates the following: -

Potential Sources – Potential Made Ground associated with the historic and present use of the site. Harmful ground gases from made ground, infilled ponds, landfill sites, burial ground, shallow mine workings and radon.
Pathway – Direct contact, including inhalation, ingestion and dermal contact.
Receptor – End-users and site workers.

4.2.1 Sources

The desk study has identified that the site has historically been used as Railway Land and presently as a highway maintenance depot. Therefore, within the Made Ground deposits, the principal contaminants of concern are general metals, asbestos, PAH and TPH. Harmful ground gases from made ground, infilled ponds, landfill sites, burial ground, shallow mine workings and radon.

4.2.2 Pathways

Direct contact (dermal) with contaminated soils and materials, ingestion of contaminated soil, ingestion of soil dust and inhalation of soil vapours and ground gas.

4.2.3 Receptors

End users of the site and site workers (demolition and construction phases). Based on the information available prior to the intrusive investigation, it is considered that the overall level of risk to the end users is moderate.

4.3 POTENTIAL RISKS TO CONTROLLED WATERS

From the preceding information a conceptual model has been formulated which illustrates the following: -

Potential Sources – Potential Made Ground associated with the historic and present use of the site.
Potential Pathway – Infiltration and overland run-off.
Potential Receptors – Minor aquifer, issue and drain/watercourse.

4.3.1 Sources

The desk study has identified that the site has historically been used as Railway Land and presently as a highway maintenance depot. Therefore, within the Made Ground deposits, the principal contaminants of concern are general metals, asbestos, PAH and TPH.

4.3.2 Pathways

Leaching and migration of contaminants through the vadose zone to the saturated zone and overland run-off.

4.3.3 Receptors

The primary receptors are the Minor Aquifer (Coal Measures) underlying the site and the issue and drain/watercourse down slope within the south eastern boundary. Based on the information available prior to intrusive investigation, it is considered that the overall level of risk to controlled waters is low to moderate.

4.4 POTENTIAL RISKS TO CONSTRUCTION MATERIALS

From the preceding information a conceptual model has been formulated which illustrates the following: -

Potential Sources – Potential Made Ground associated with the historic and present use of the site.
Potential Pathways – Infiltration and direct contact.
Potential Receptors – Underground pipes and buried concrete.

4.4.1 Sources

The desk study has identified that the site has historically been used as Railway Land and presently as a highway maintenance depot. Therefore, within the Made Ground deposits, the principal contaminants of concern are general metals, asbestos, PAH and TPH.

4.4.2 Pathways

Direct contact and leaching / migration of contaminants.

4.4.3 Receptors

Potential receptors include buried concrete and plastic water pipes and it is considered based on the information available prior to the intrusive investigation that the overall level of risk is low.

5.0 INITIAL REMEDIATION RECOMMENDATIONS

5.1 PROTECTION OF END USERS

The Client proposes to develop the site for residential housing and it has been assumed in the following assessment that the development will be in line with current planning guidance for two to three storey housing with residential gardens.

The conceptual model has reported that the most likely potential source of contamination is any Made Ground associated with the sites historic use as railway land and present use as a highways maintenance depot. The risk posed to the end user is anticipated to be moderate.

A need for remedial works to protect the end users should be anticipated. Any potential remedial measures will be confined to the garden areas and any areas of soft landscaping. Those areas to be covered with hard standing or buildings may not require any remediation.

Any required remediation would take the form of either a capping layer (comprising of a topsoil and subsoil layer) or removal of material within garden and landscaped areas. This would depend on the volume of the material.

Considering the proposed end-use of the site it is likely that validation of the remedial measures by observation and measurement of capping thickness together with some testing of the newly imported material would be required. Such testing is best done at source.

5.2 PROTECTION OF CONTROLLED WATERS

The conceptual model has reported that the most likely potential source of contamination is any Made Ground associated with the sites historic use as railway land and present use as a highways maintenance depot. The risk posed to controlled waters is anticipated to be low to moderate.

The primary receptors for the site are the underlying minor aquifer and onsite issue and drain/watercourse.

If the potential Made Ground is found to pose a significant risk to the controlled waters then some form of remediation would be required. Any potential remedial measures would be confined to the garden areas and any areas of soft landscaping. Those areas to be covered with hard standing or buildings would not require any remediation, unless significant petroleum hydrocarbon impacted soils are identified. If this is proven, then these impacted soils would need to be removed to protect the underlying Minor Aquifer and onsite issue and drain.

Any required remediation would take the form of the removal of the hazardous material and replacement with clean and inert material.

A cut-off drain and interceptor may be required to stop potentially contaminated overland run-off entering the issue and drain/water course during any construction phases.

5.3 PROTECTION OF SITE WORKERS

Appropriate PPE should be worn by all site personnel, and HSE guidelines followed.

5.4 PROTECTION OF CONSTRUCTION MATERIALS

The use of protected non-MDPA water pipes may be necessary, dependant on the levels of any potential contamination within the site.

The use of Sulphate resistant concrete may be necessary, dependant on the findings of the subsequent ground investigation.

5.5 REMEDIAL ACTIONS FOR OVERALL GROUND GAS HAZARD

A program of gas monitoring will form part of a future ground investigation. The results of this may indicate that mitigative measures are required to protect the future end users from the effects of Carbon Dioxide and/or Methane. The nature of this protection will be dependant on gas concentrations present.

Section 2.12 has already identified that Basic Radon Protection may be required to protect the end user in any construction of new dwellings.

6.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

6.1 INTRODUCTION

The Client proposes to develop the site for residential housing and it has been assumed in the following assessment that the development will be in line with current planning guidance for two to three storey housing with residential gardens.

The finished floor levels of the proposed structures have not been provided by the client. Therefore, it is assumed that finished levels will not vary appreciably from the existing ground levels. The depths of any underground engineering works (i.e. sewers, pumping stations etc.) are unknown and therefore have not been taken in to account in the following assessment. It has been assumed that any such works will not compromise foundation and ground stability.

Should the development proposals or finished levels be altered then the comments/recommendations below will require revising.

It should be noted that the comments/recommendations in the following assessment are based on the findings of this desk study only. Prior to development a full ground investigation will be required to confirm the initial recommendations outlined below.

6.2 ENGINEERING GROUND TREATMENT

The near surface soils have the potential to be disturbed by weathering and site traffic. Precautions should be taken to avoid this as excessive disturbance may entail more onerous floor slab design, road cap thickness and increased amounts of off site disposal etc.

The near surface soils may need treatment or reinforcing to allow safe movement of construction plant and labour. An assessment by the contractor should be undertaken once the type of machinery/plant needed to complete the development is known.

Due to the potential of unrecorded worked seams at shallow depth and the potential for unrecorded shafts, a probe drilling investigation should be carried out to determine any shallow worked seams/shafts below the site. Depending on the results, a drill and grout program may be required to stabilise the underlying strata.

6.3 EXCAVATION CONDITIONS

Site-specific observations and experience of historic railway land, suggests that the overlying made ground deposits may comprise of ash and clinker. These deposits are normally loose in strength and as such some form of trench support may be required. Deep made ground should be expected near the crest of the slope along the south eastern portion of the site.

The geological map for the area indicates no overlying superficial deposits. Therefore, solid strata may be present at shallow depth, where limited made ground is expected along the north western portion of the site. Where deepening for sewers and services are required an allowance for hydraulic breakers may be required.

All excavations on site should be in accordance with HSE guidelines and stability should be practically maintained at all times.

An allowance should be made, at this stage, for trench support and dewatering of excavations during development works.

6.4 EXISTING CONSTRUCTION

There are existing buildings on the site, some with possible substructures. There may also be old foundations or other buried construction from the previous site use as indicated on historic O.S. maps.

Where practicable, old construction should be fully removed; however, if this is not practicable all new foundations should be carried down to fully penetrate it and it should be broken well away from all new construction.

6.5 BEARING STRATA

Foundations must not be founded in Made Ground (unless it is engineered).

It is considered likely that any natural cohesive soils encountered, at anticipated foundation depths, will be at least firm and it is anticipated that a nett allowable bearing pressure of at least 110kN/m^2 for conventional strip or trench footings will be achievable. This will allow structural loads up to 56kN/m to be taken on footing widths of 450mm. Wider footings may be required for higher point/line loads such as a party walls etc. Should wider footings be required for higher point/line loads GRM should be contacted for further advice.

It is considered likely that any natural granular soils encountered, at anticipated foundation depths, will be at least medium dense and it is anticipated that a nett allowable bearing pressure of at least 200kN/m^2 for conventional strip or trench footings will be achievable (assuming no shallow groundwater). This will allow structural loads up to 90kN/m to be taken on footing widths of 450mm. Wider footings may be required for higher point/line loads such as a party walls etc. Should wider footings be required for higher point/line loads GRM should be contacted for further advice. If a shallow watertable is present then the allowable bearing pressure will be reduced to 100kN/m^2.

If strata of differing bearing character (e.g. sand, clay or rock) are encountered at foundation levels within the excavations for a single plot then the excavation depths should be altered as appropriate to ensure the foundations rest on a single stratum, or strata that will not induce differential settlement. Where this is impractical then GRM should be contacted to assess a reinforced concrete detail or in extreme cases a piled solution.

The geological map indicates that two coal seams may sub-crop beneath the site. If coal is encountered during foundation excavation they should be deepened through to the underlying strata.

The above is subject to confirmation by a detailed ground investigation.

6.6 TYPE AND DEPTHS OF FOUNDATIONS

A minimum foundation depth of 0.9m in cohesive strata and 0.6m in granular strata should be assumed at this stage. The actual depths of foundations across most of this site will be largely determined by the extent of any deep Made Ground and substructures, any past or future regrading works, and proposed final ground levels.

At this stage, trench fill foundations are considered appropriate. Depending on the underlying geology, extent of Made Ground and the impact of trees on the proposed foundations, the use of piled foundations may need to be considered for some of the plots. A full ground investigation will be needed to confirm this further.

The above is subject to confirmation by a detailed ground investigation.

6.7 TREE INFLUENCE

Some high water demand trees are present within and close to the site area. The majority of the natural strata below the site is considered likely to be shrinkable clay.

Localised deepening of foundations due to tree influence is anticipated (see section 6.5). Compliance with NHBC Standards in Chapter 4.2 is recommended.

The deepening for the influence of trees in some areas may potentially be sufficient (i.e. deeper than 2.5m begl) to require an alternative foundation solution such as piling. Deepening for trees can be halted by the presence of rock strata or if the underlying geology is proved to be granular. The need for a desiccation survey should be considered.

Foundations should be remote from the direct action of tree roots.

Heave precautions will be required where the foundations lie within the heave zone of nearby trees.

If new trees are to be planted in the future their positions should take into account possible future effects on foundations.

The above is subject to confirmation by a detailed ground investigation.

6.8 FLOOR SLABS

At this stage a voided suspended floor system such as beam and block will be required for all plots in the proposed development.

An intrusive investigation may allow for some plots to be suitable for an in-situ suspended floor system.

At this stage we suggest that an allowance be made for basic radon gas precautions to be incorporated into the floor slab.

The above is subject to confirmation by a detailed ground investigation.

6.9 SLOPE STABILITY AND RETAINING STRUCTURES

The site comprises of a relatively level plateau parallel to the contours of the hill and formed by building up the land on the hill side to allow the use of the site as a railway siding and goods yard. The embankment formed by these earthworks and subsequent tipping near the crest of the slope has formed an overly steepened slope in areas in excess of 45 degrees and 15 to 25m in height. Existing trees at present are acting as retainers on the slope where material has built up by snagging behind the tree trunks.

An easement zone around the crest of the slope may be required together with re-profiling of the slope.

Regrading of the site, cut and fill operations, interference with drainage around existing slopes or the cutting of the toe or surcharging of the crest of existing slopes may cause instability and failure to occur .

The present gradients on site are likely to be adjusted by minor earthworks. Future ground profiles may require earth retaining structures, for which further advice may be required when more information is available.

The above is subject to confirmation by a detailed ground investigation.

6.10 SOAKAWAY DRAINAGE

The anticipated strata *may* be suitable for soakaway drainage, in some parts of the site where sandstone strata is indicated according to the geological map for the area. Soakaway testing is required to design cost effective and appropriate soakaways to BRE Digest 365.

The Environment Agency may require domestic soakaways to be sealed systems such that only roof run off falls to soakaway.

Interceptors are likely to be required for soakaways for highway drainage. The adopting authority for the highways should be consulted at the earliest opportunity regarding the use of soakaways for highway drainage.

The above is subject to confirmation by a detailed ground investigation.

6.11 NEW ACCESS ROADS

The anticipated natural materials are likely to have CBR values of between 2% and 5%.

Untreated Made Ground is unlikely to be suitable as a sub-grade due to its potential variability and potentially low strength.

The adopting authority should be consulted at the earliest opportunity as to local requirements regarding sub grade requirements. Incorporation of a geotextile grid into sub-base layers may allow for reduced capping thickness.

Site observations should be confirmed by in situ or laboratory testing in accordance with the local adopting authority's preference.
The above is subject to confirmation by a detailed ground investigation.

6.12 BURIED CONCRETE

Laboratory testing will be required to confirm type of buried concrete construction.

The above is subject to confirmation by a detailed ground investigation.

7.0 FURTHER INVESTIGATION

A ground investigation, to determine more accurately the effect of the identified hazards on the development, is recommended. Initially, this should include;

- Intrusive ground investigation comprising trial pits / window sample boreholes to assess the founding conditions.
- Probe drilling investigation to determine the location of any shallow mine workings.
- Chemical analysis to assess the risk posed to end-users, controlled waters and construction materials.
- Geotechnical soils testing to provide information for the design of suitable foundations and concrete design.
- An arboreal specialist should conduct a tree survey prior to site clearance.
- If a piling foundation solution is required for some of the plots then cable percussion boreholes may be required, or alternatively a desiccation survey should be considered to avoid having to pile.
- An ecological survey, including an assessment of the presence of invasive plants and protected species, should be carried out.
- If soakaway drainage is the proposed method of drainage for this site, testing is required to design cost-effective and appropriate soakaways to BRE Digest 365.
- Detailed BGS Radon report should be obtained.

A copy of this report should be submitted to the Planning Department of the Local Authority/ Local Authority EHO for review.

8.0 CONCLUSIONS

This site assessment has shown the site is suitable for the proposed development, assuming compliance with all the recommendations contained within this report.

Document prepared by	**Steven Wheatcroft BSc FGS (Geologist)**
Reviewed by	**Rob Crossland MSc FGS CGeol CSci (Principal Engineer)**
Approved by	**Chris Jerram CGeol FGS (Director)**
When required in-house geological, geotechnical, environmental, structural and civil staff helped to produce this document.	

NOTES ON LIMITATIONS

Ground Risk Management Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement had been executed, or with whom an assignment had been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from Ground Risk Management Limited; a charge may be levied against such approval.

Ground Risk Management Limited accepts no responsibility or liability for:

a) the consequences of this document being used for any purpose or project other than for which it was commissioned, and

b) the consequences of this document being used by any third party with whom an agreement has not been executed.

Phase I Environmental Audits/ Desk Studies

The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the site and meetings and discussions with relevant authorities and other interested parties. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only to the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, Ground Risk Management Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly. It should be noted that any risks identified in a Phase 1 report are perceived risks based on the information reviewed; actual risks can only be assessed following a physical investigation of the site.

Phase II Environmental Audits (Contamination Investigations)

The investigation of the site has been carried out to provide sufficient information concerning the type and degree of contamination, ground and groundwater conditions to allow a reasonable risk assessment to be made. The objectives of the investigation have been limited to establishing the risks associated with potential human targets, building materials, and controlled waters.

The amount of exploratory work and chemical testing undertaken has necessarily been restricted by the short timescale available, and the locations of exploratory holes have been restricted to the areas unoccupied by the building(s) on the site and by buried services. A more comprehensive investigation may be required if the site is to be redeveloped as, in addition to risk assessment, a number of important engineering and environmental issues need to be resolved.

For these reasons if costs have been included in relation to site remediation these must be considered as tentative only and must, in any event, be confirmed by a commercial adviser.

The exploratory holes undertaken, which investigate only a small volume of the ground in relation to the size of the site, can only provide a general indication of site conditions. The number of sampling points and methods of sampling and testing do not preclude the existence of localised "hotspots" of contamination where concentrations may be significantly higher than those actually encountered.

The risk assessment and opinions provided, inter alia, take in to consideration currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.

Phase II Geo-environmental Investigations (Combined Geotechnical and Contamination Investigations)

The investigation of the site has been carried out to provide sufficient information concerning the type and degree of contamination, geotechnical characteristics, and ground and groundwater conditions to provide a reasonable assessment of the environment risks together with engineering and development implications. If costs have been included in relation to site development a commercial adviser must confirm these.

The exploratory holes undertaken, which investigate only a small volume of the ground in relation to the size of the site, can only provide a general indication of site conditions. The opinions provided and recommendations given in this report and based on the ground conditions apparent at the site of each of the exploratory holes. There may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.

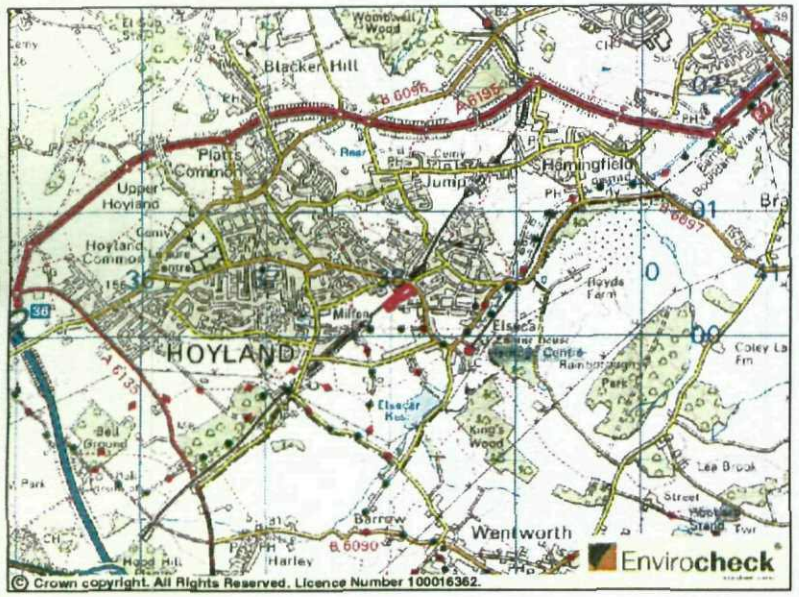
The comments made on groundwater conditions are based on observations made at the time the site work was conducted. It should be noted that groundwater levels will vary owing to seasonal, tidal and weather related effects.

The scope of the investigation was selected on the basis of the specific development proposed by the Client and may be inappropriate to another form of development or scheme.

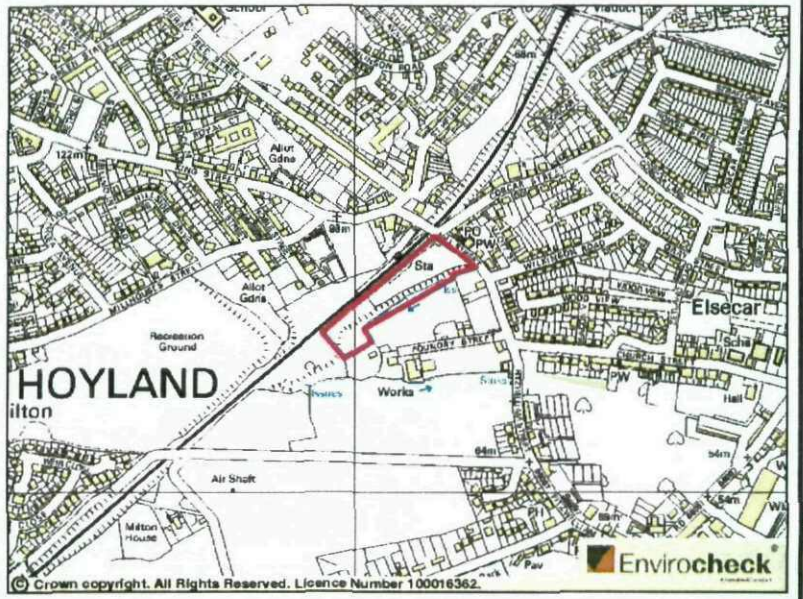
The risk assessment and opinion provided, inter alia, take into consideration currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.

APPENDIX A

GRM Development Solutions
geoenvironmental - civil - structural



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DO NOT SCALE

NOTES:

Approx Site Location

GROUND RISK MANAGEMENT
Bretby Business Park,
Burton-on-Trent, Staffs, DE15 0YZ
Tel: 01283 551249 Fax: 01283 211968

CLIENT:
John Church Planning Consultancy Ltd

PROJECT:
Former Elsecar Railway Station, Hill Street, Elsecar, Barnsley.

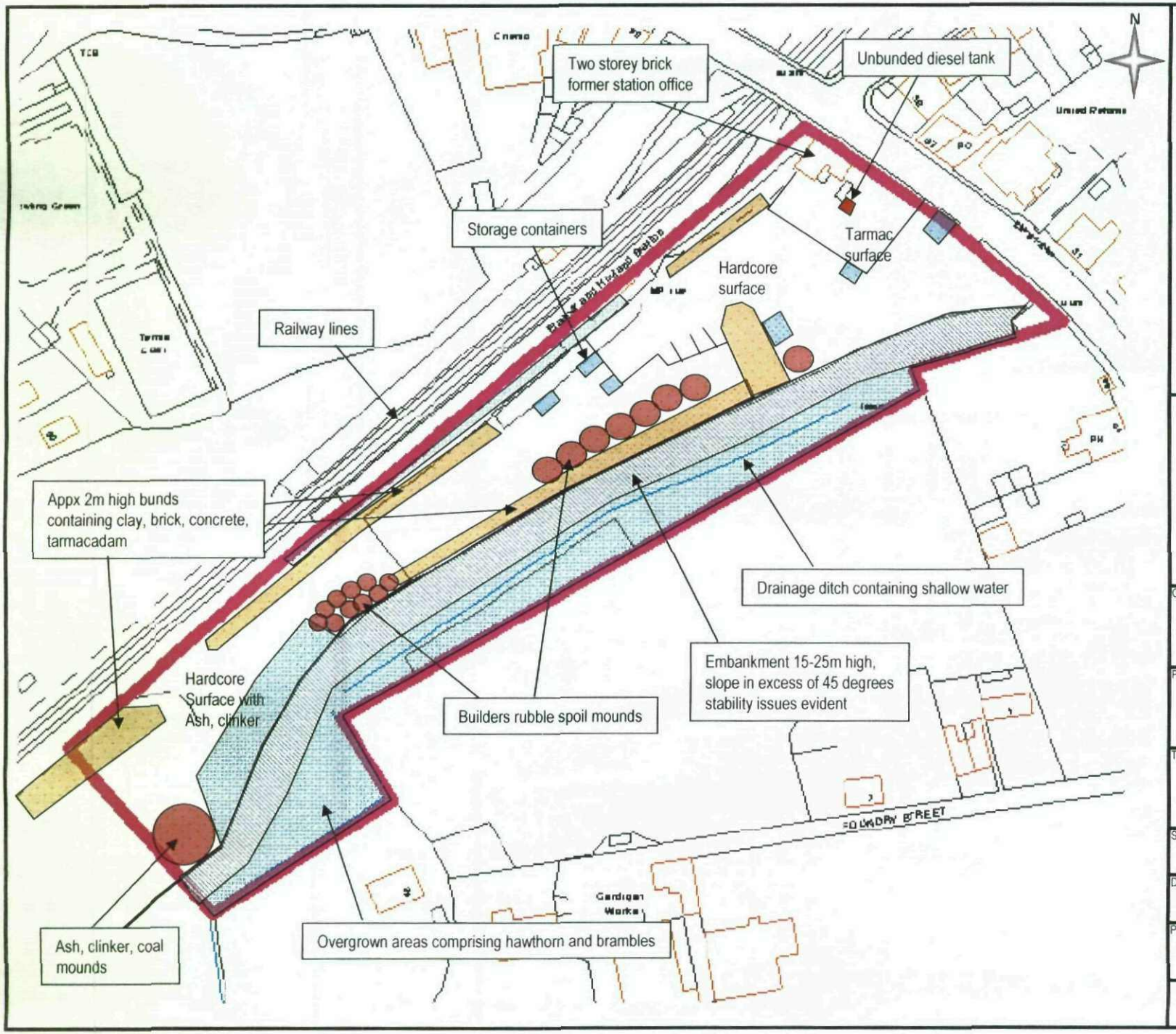
TITLE:
Site Location Plan

SCALE@SIZE:	ISSUE:
NTS	FINAL
DESIGN/DRAWN: SW	DATE: February 2007
PROJECT No: P3987	DRAWING No: Figure 1

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APPENDIX B

GRM Development Solutions
geoenvironmental - civil - structural



DO NOT SCALE

NOTES:

GROUND RISK MANAGEMENT
Bretby Business Park,
Burton-on-Trent, Staffs, DE15 0YZ
Tel: 01283 551249 Fax: 01283 211968

CLIENT
John Church Planning Consultancy Ltd

PROJECT
Former Elsecar Railway Station, Hill Street, Elsecar, Barnsley.

TITLE
Site Features Plan

SCALE@SIZE	ISSUE
NTS	FINAL
DESIGN/DRAWN: SW	DATE: February 2007
PROJECT No: P3987	DRAWING No: Figure 2

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NOTES:

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GROUND RISK MANAGEMENT
Bretby Business Park,
Burton-on-Trent, Staffs, DE15 0YZ
Tel. 01283 551249 Fax. 01283 211968

CLIENT:
John Church Planning Consultancy Ltd

PROJECT:
Former Elsecar Railway Station, Hill Street, Elsecar, Barnsley.

TITLE:
General Site Photographs

SCALE@SIZE:	ISSUE:
NTS	FINAL
DESIGN/DRAWN:	DATE:
SW	February 2007
PROJECT No:	DRAWING No:
P3987	Figure 3

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APPENDIX C

GRM Development Solutions
geoenvironmental - civil - structural

Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

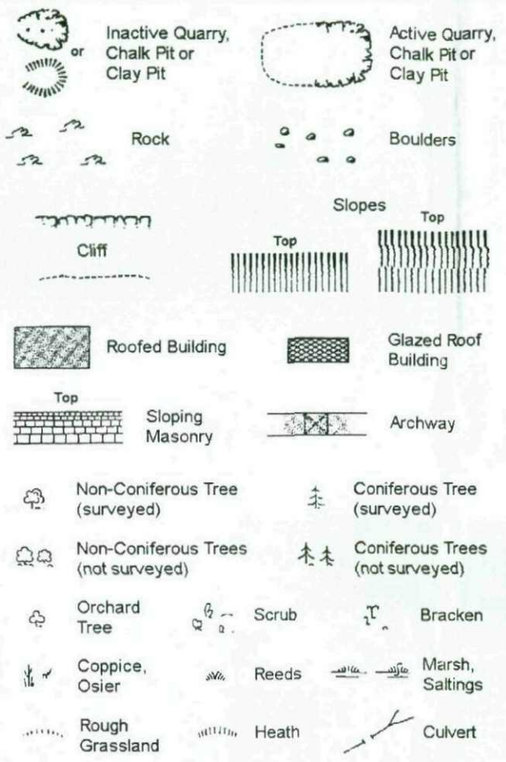
Administrative County & Civil Parish Boundary

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

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B 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



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)

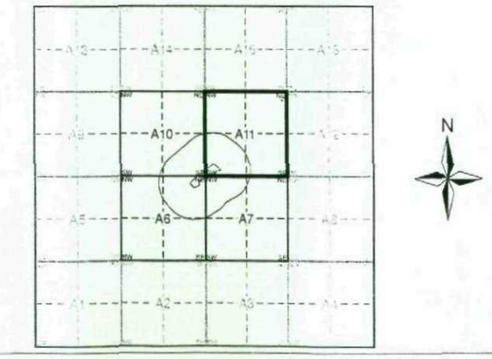
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity 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 Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	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

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Ordnance Survey mapping included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1892	2
Yorkshire	1:2,500	1903	3
Yorkshire	1:2,500	1930	4
Ordnance Survey Plan	1:2,500	1956	5
Ordnance Survey Plan	1:1,250	1956	6
Ordnance Survey Plan	1:1,250	1968 - 1976	7
Additional SIMs	1:1,250	1988 - 1989	8
Additional SIMs	1:1,250	1991 - 1992	9
Large-Scale National Grid Data	1:1,250	1993	10

Historical Map - Segment A11



Order Details

Order Number: 21038644_1_1
Customer Ref: P3987
National Grid Reference: 438070, 400310
Sheet: A
Site Area (Ha): 1.39
Search Buffer (m): 250

Site Details

Former Elsecar Railway Station, Hill Street, Elsecar, BARNSLEY, South Yorkshire, S74 8DB

LANDMARK® Information Group
Tel: 0870 850 6670
Fax: 0870 850 6671
Web: www.envirocheck.co.uk

Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 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
Fenced
Un-Fenced
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

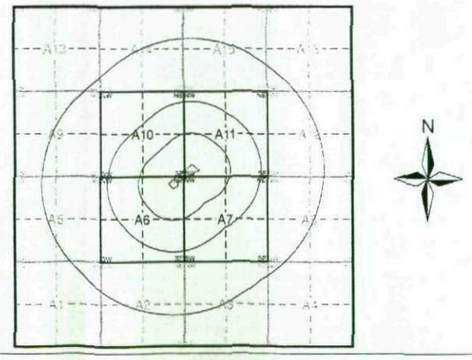
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or 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

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Ordnance Survey mapping included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1855	2
Yorkshire	1:10,560	1893 - 1894	3
Yorkshire	1:10,560	1905 - 1907	4
Yorkshire	1:10,560	1938 - 1948	5
Ordnance Survey Plan	1:10,560	1956	6
Ordnance Survey Plan	1:10,560	1965 - 1966	7
Ordnance Survey Plan	1:10,000	1980 - 1982	8
Ordnance Survey Plan	1:10,000	1989 - 1991	9
10K Raster Mapping	1:10,000	2000	10
10K Raster Mapping	1:10,000	2004	11

Historical Map - Slice A



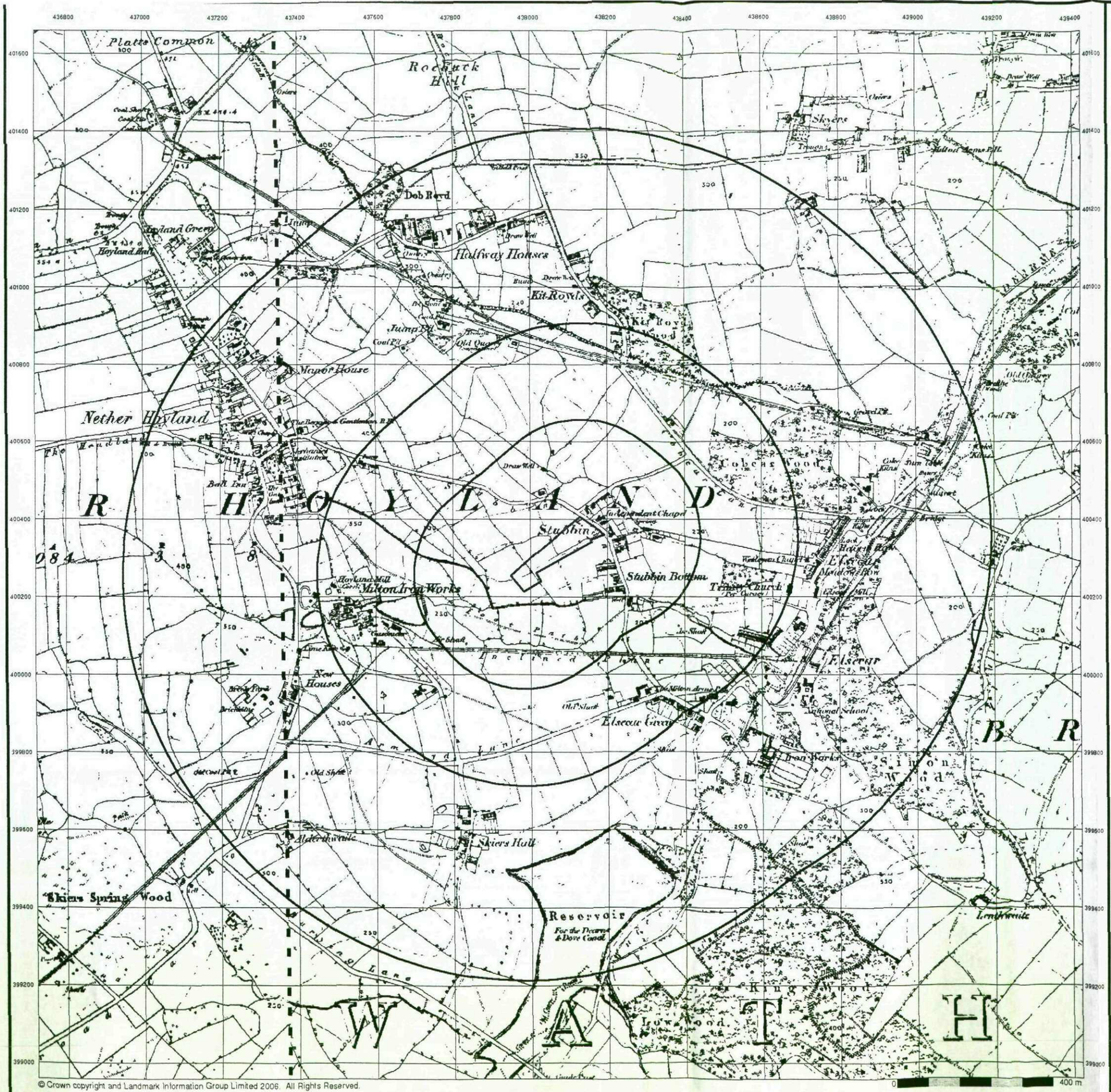
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Site Area (Ha): 1.39
Search Buffer (m): 1000

Site Details

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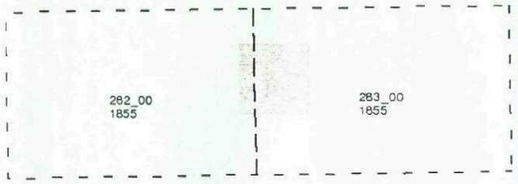
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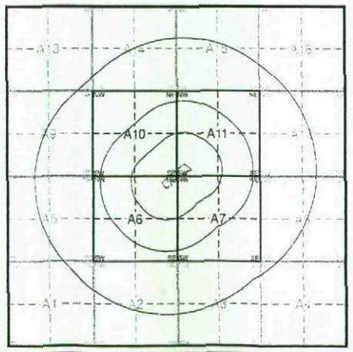
Yorkshire
Published 1855
Source map scale - 1:10,560

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)



Historical Map - Slice A



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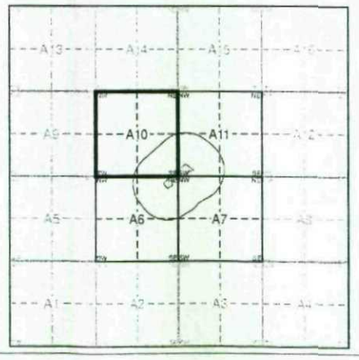
Yorkshire
Published 1892
Source map scale - 1:2,500

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



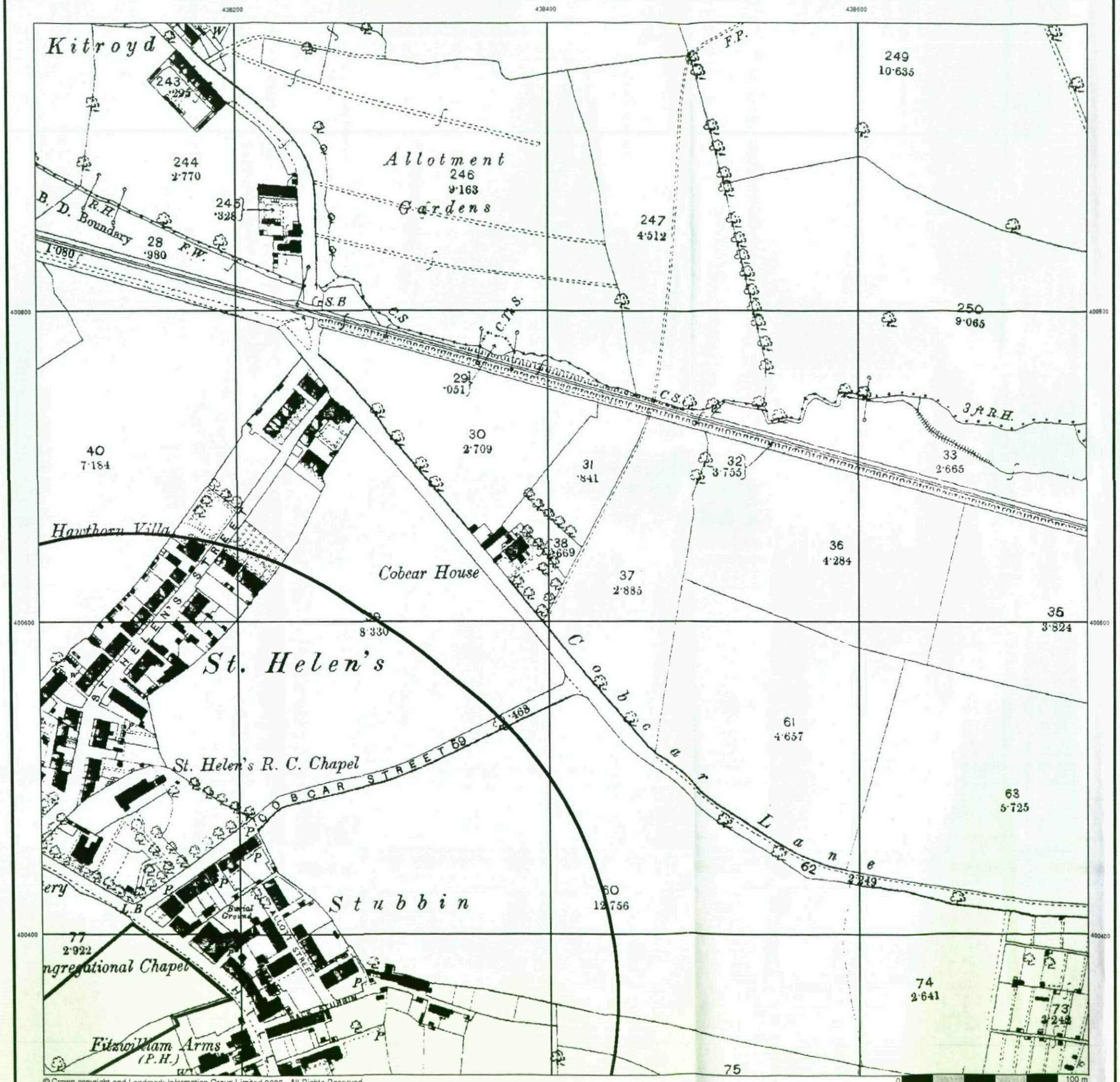
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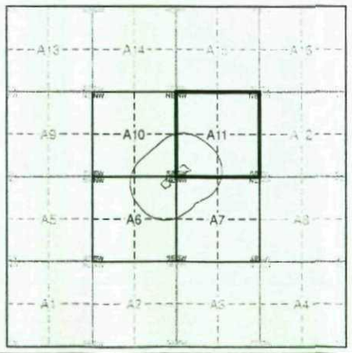
Yorkshire
Published 1892
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



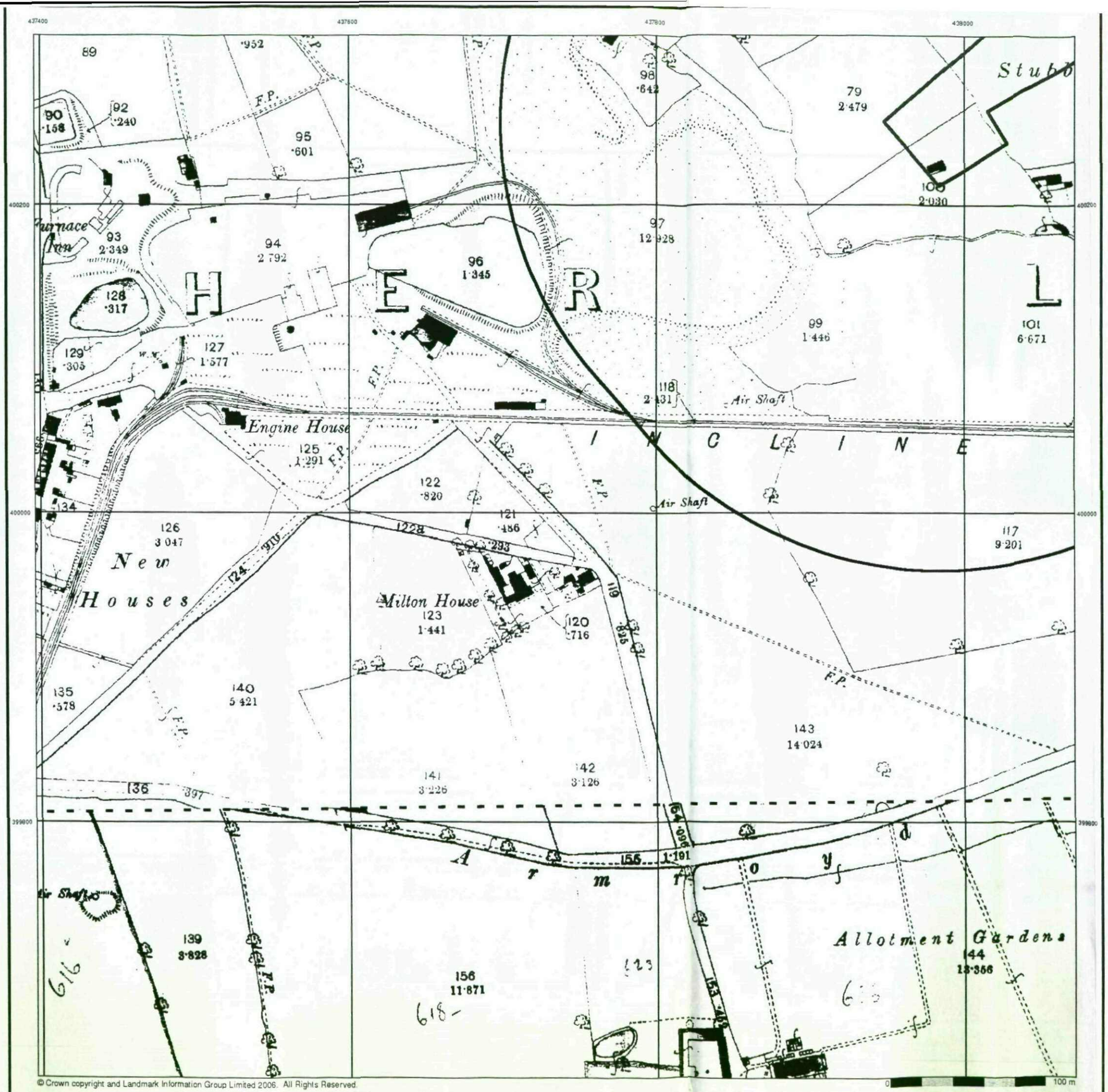
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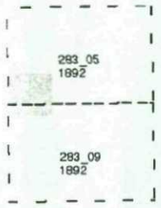


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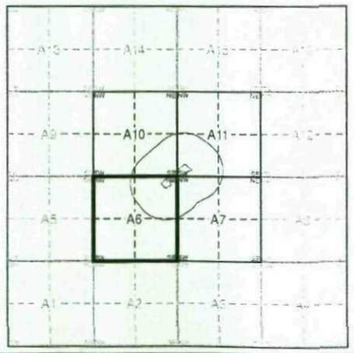
Yorkshire
Published 1892
Source map scale - 1:2,500

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 A6



Order Details

Order Number:	21038644_1_1
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National Grid Reference:	438070, 400310
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Site Area (Ha):	1.39
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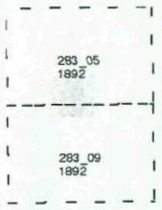
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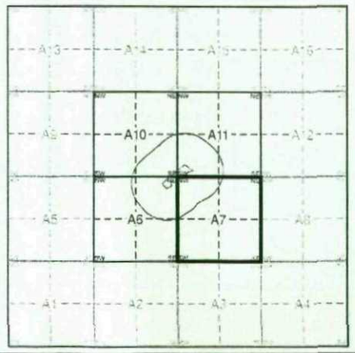
Yorkshire
Published 1892
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7

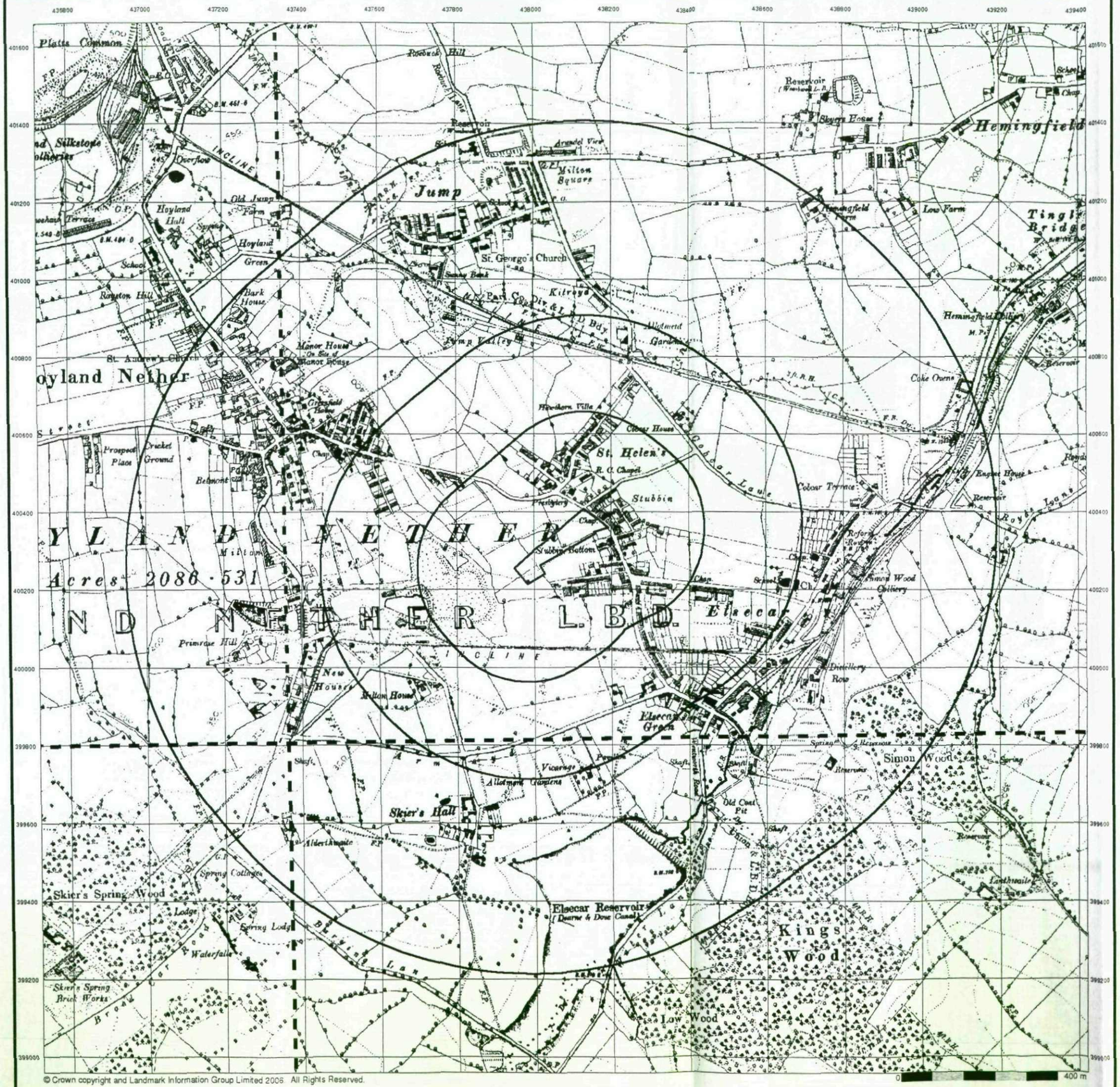


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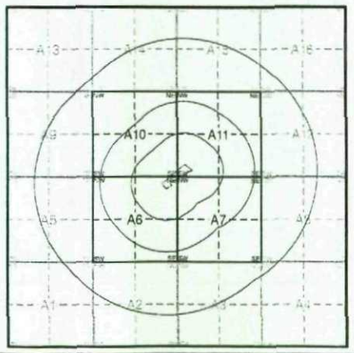
Yorkshire
Published 1893 - 1894
Source map scale - 1:10,560

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)

282_NE 1894	283_NW 1893
282_SE 1894	283_SW 1894

Historical Map - Slice A



Order Details

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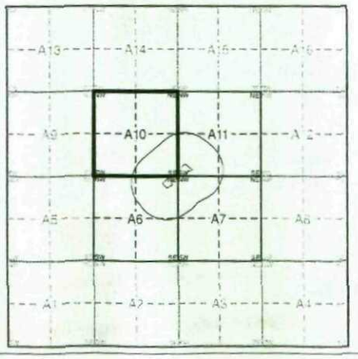
Yorkshire
Published 1903
Source map scale - 1:2,500

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



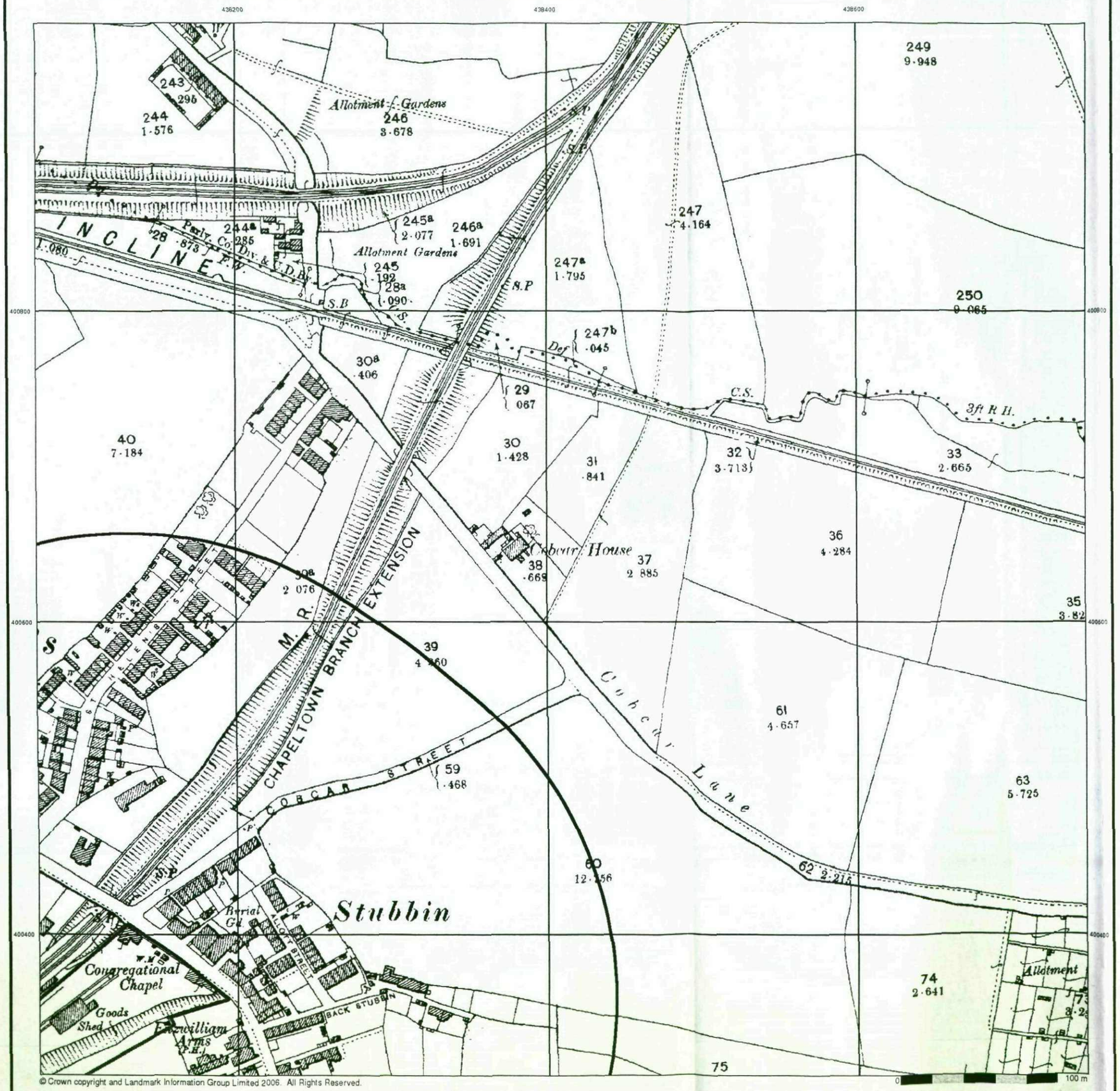
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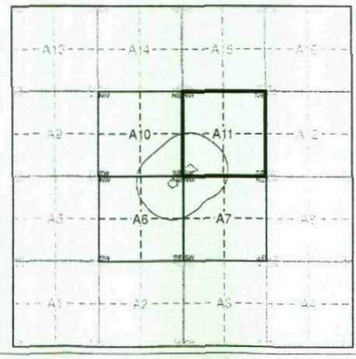
Yorkshire
Published 1903
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



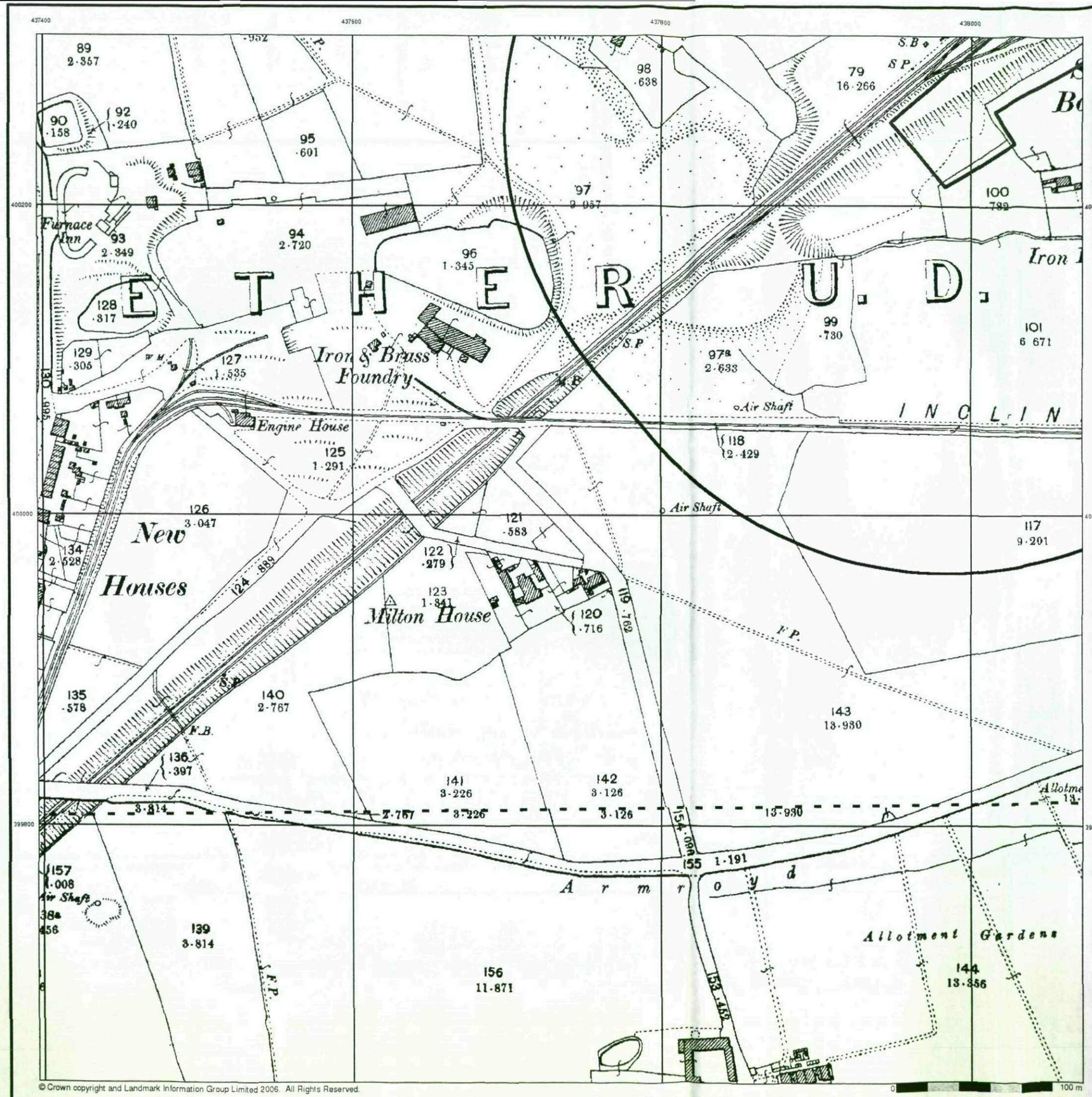
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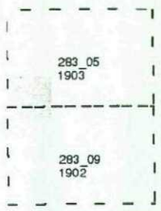
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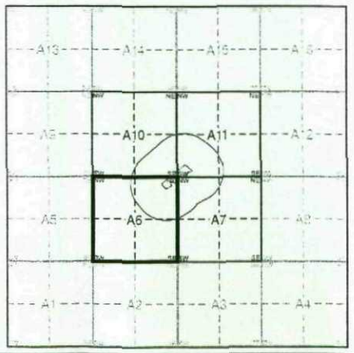
Yorkshire
Published 1902 - 1903
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A6



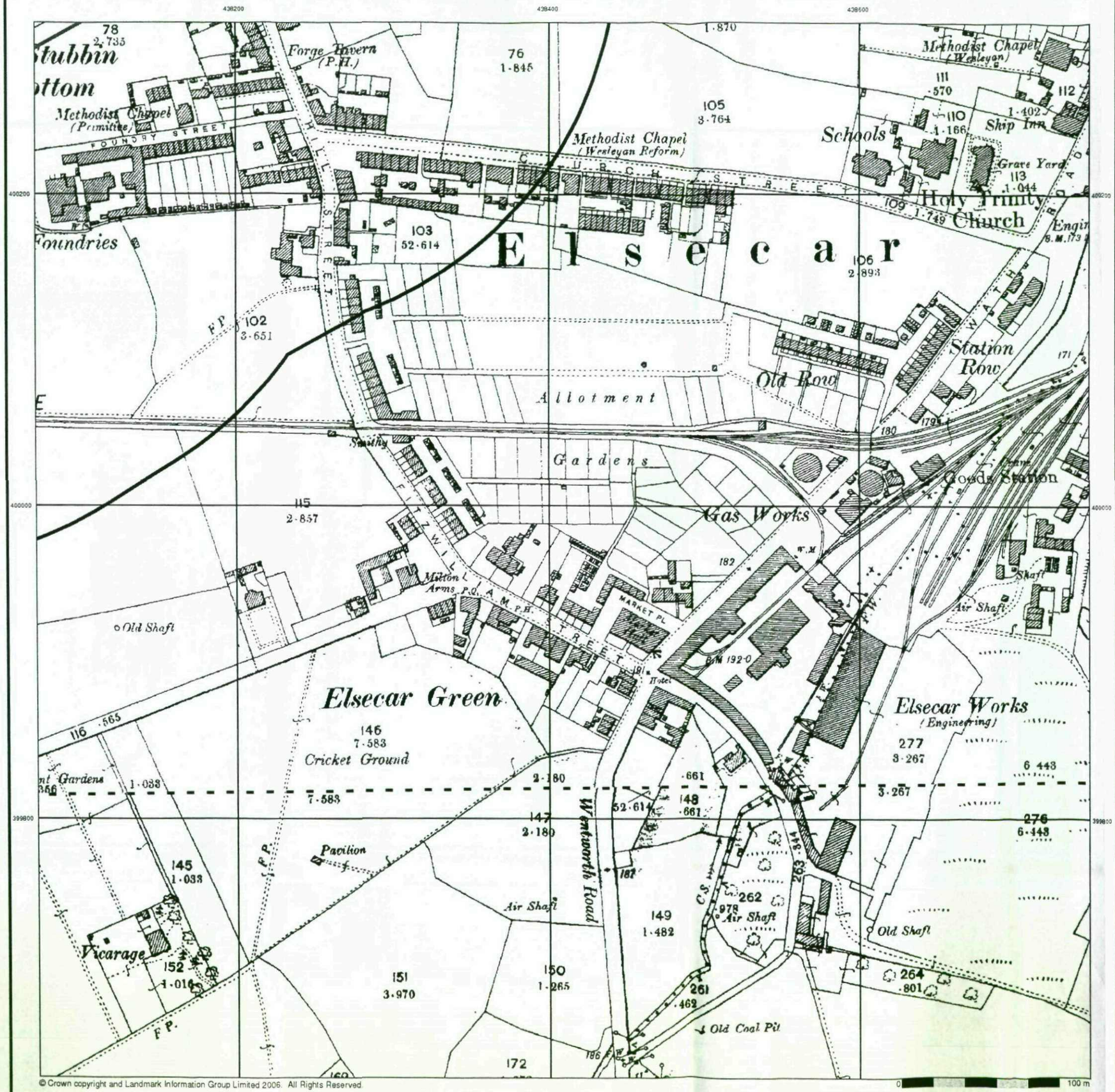
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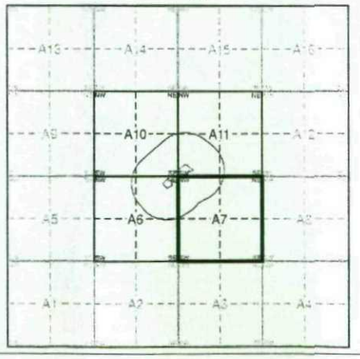
Yorkshire
Published 1902 - 1903
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



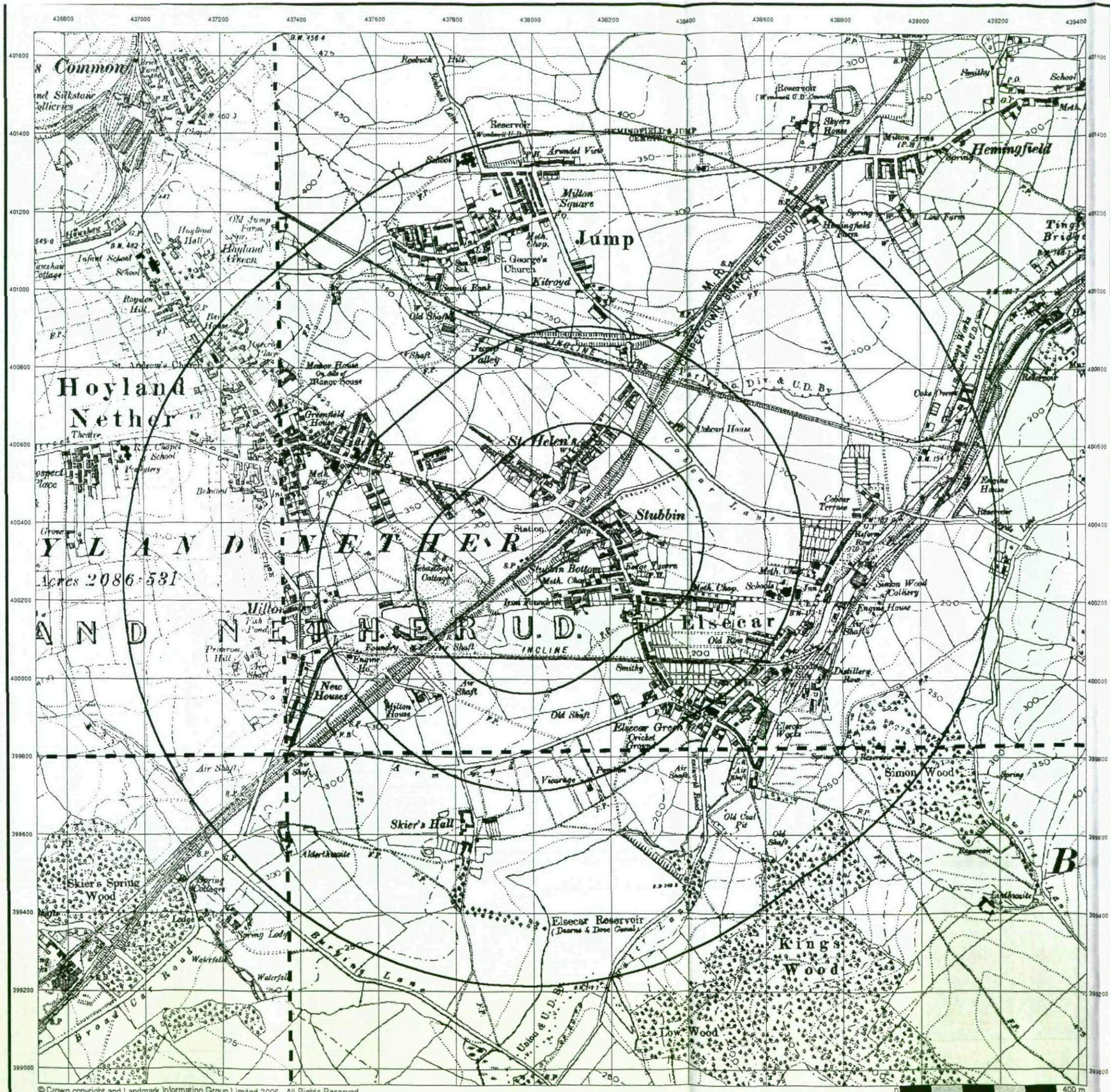
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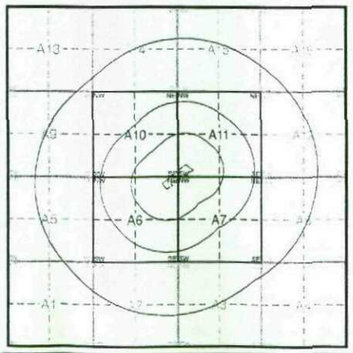
Yorkshire
Published 1905 - 1907
Source map scale - 1:10,560

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Map Name(s) and Date(s)

282_NE 1907	283_NW 1905
282_SE 1905	283_SW 1905

Historical Map - Slice A



Order Details

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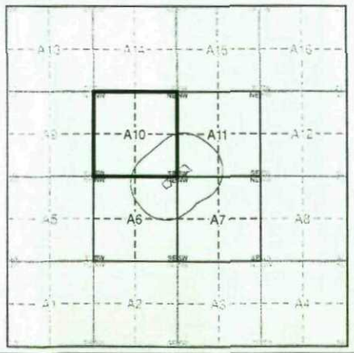
Yorkshire
Published 1930
Source map scale - 1:2,500

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)



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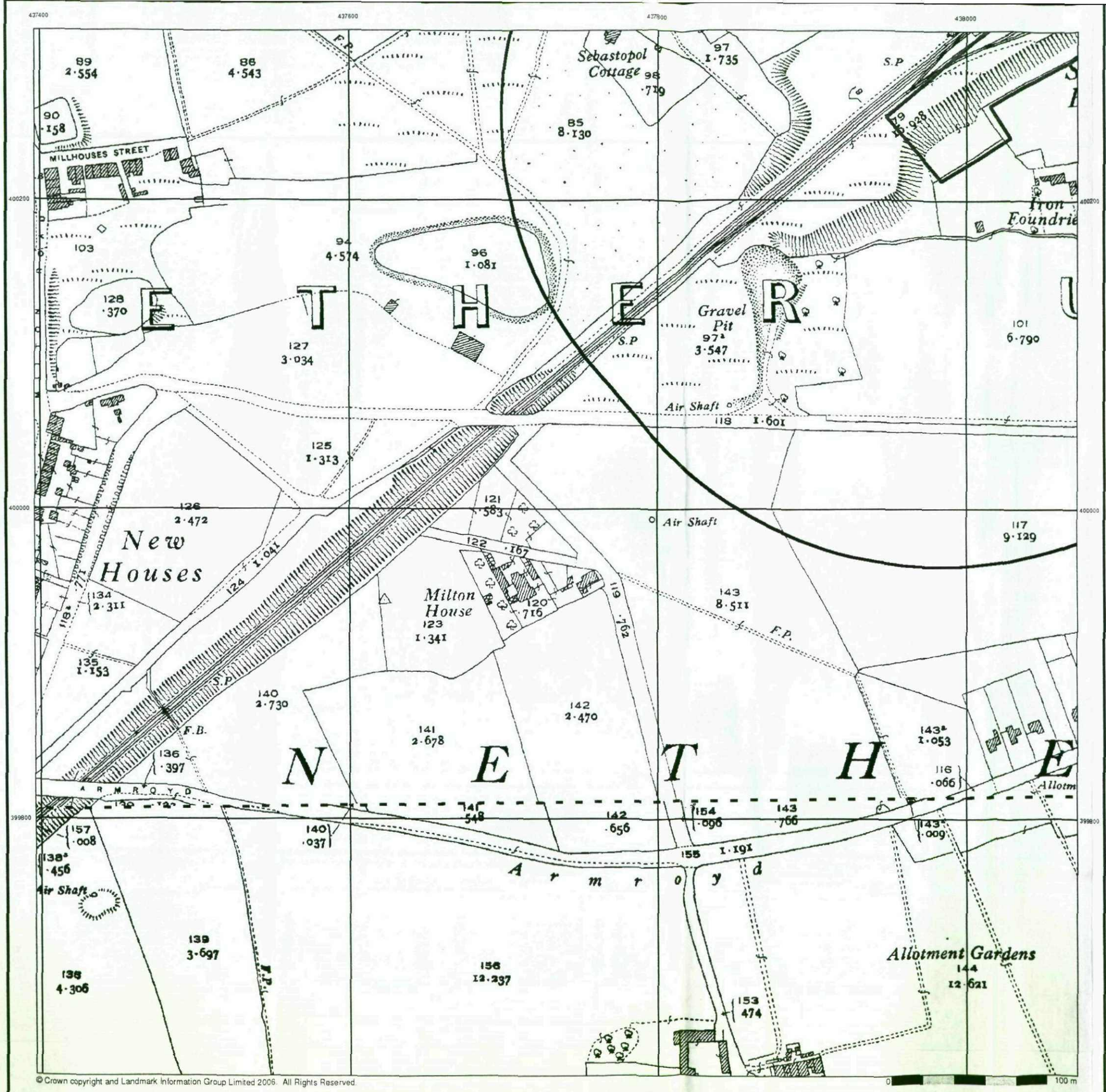
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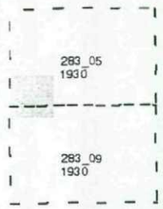
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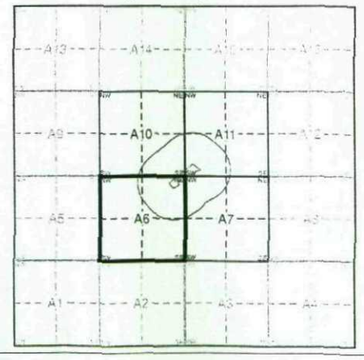
Yorkshire
Published 1930
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A6



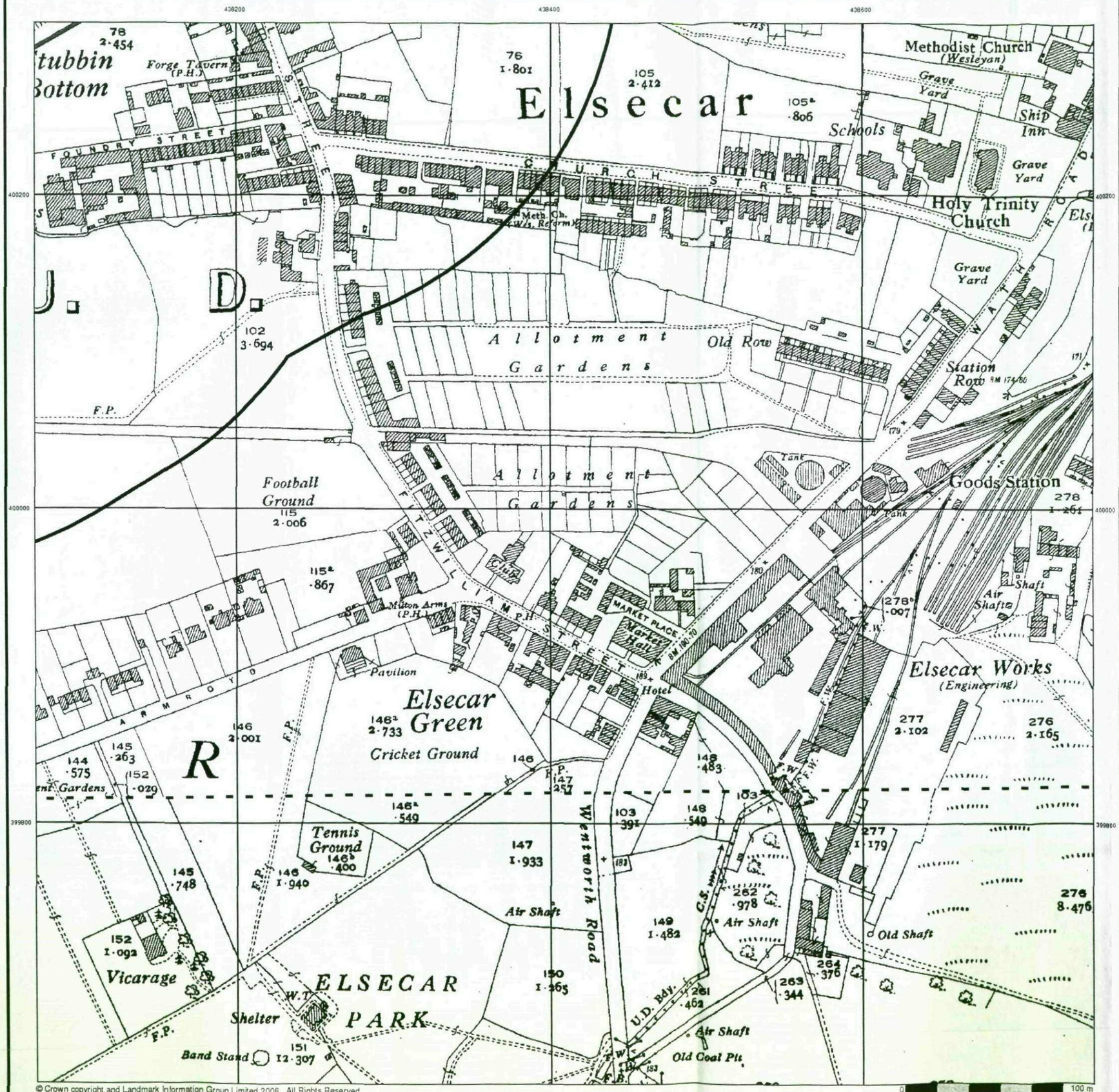
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Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	250

Site Details

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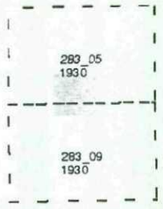


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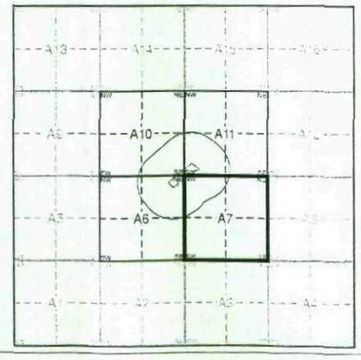
Yorkshire
Published 1930
Source map scale - 1:2,500

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



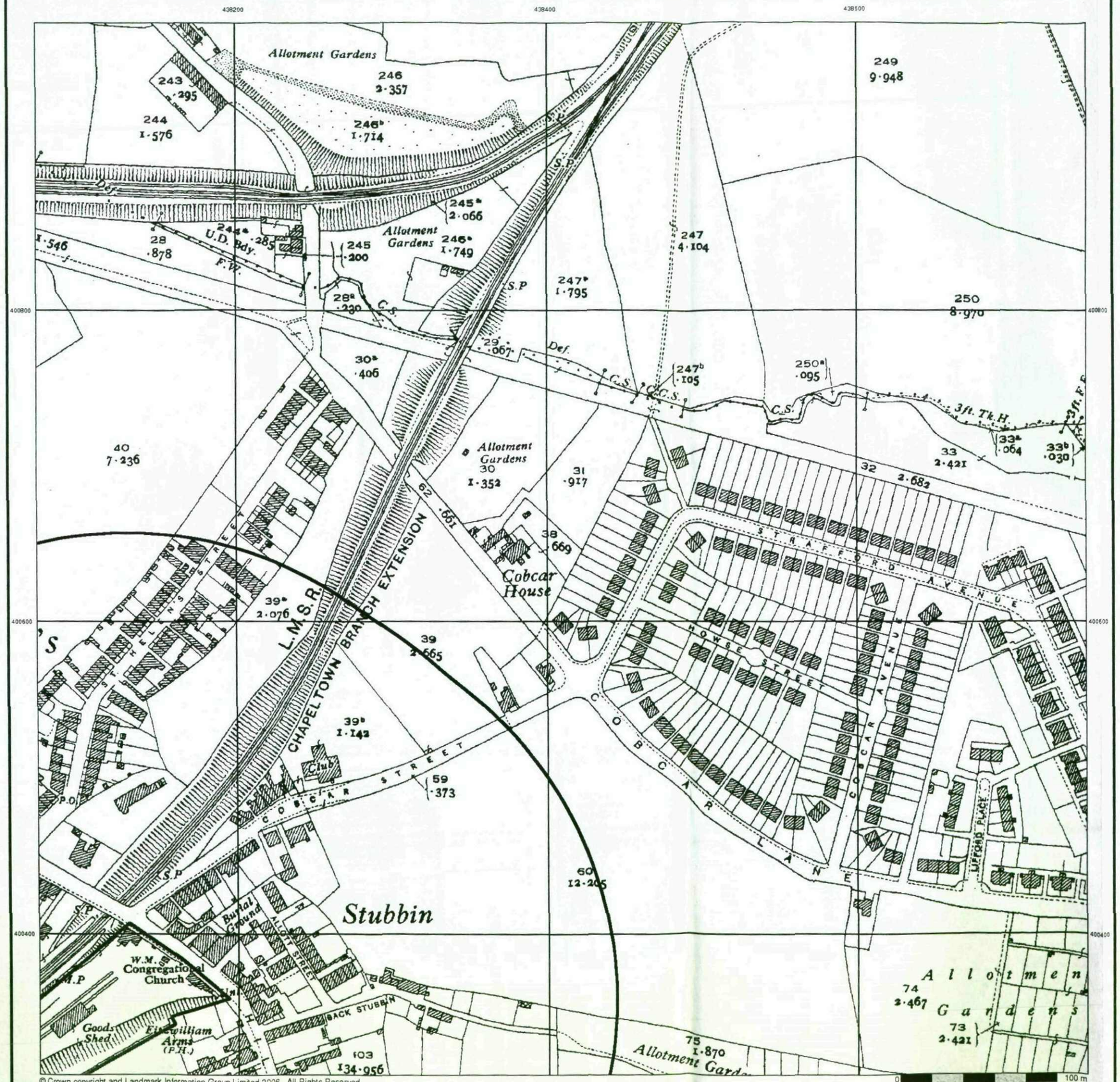
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Customer Ref:	P3987
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Sheet:	A
Site Area (Ha):	1.39
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Site Details

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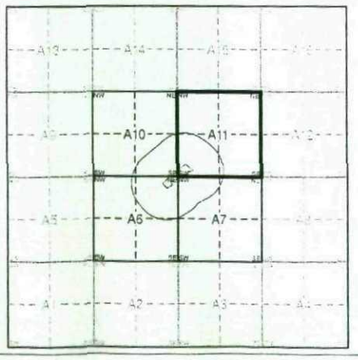
Yorkshire
Published 1930
Source map scale - 1:2,500

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



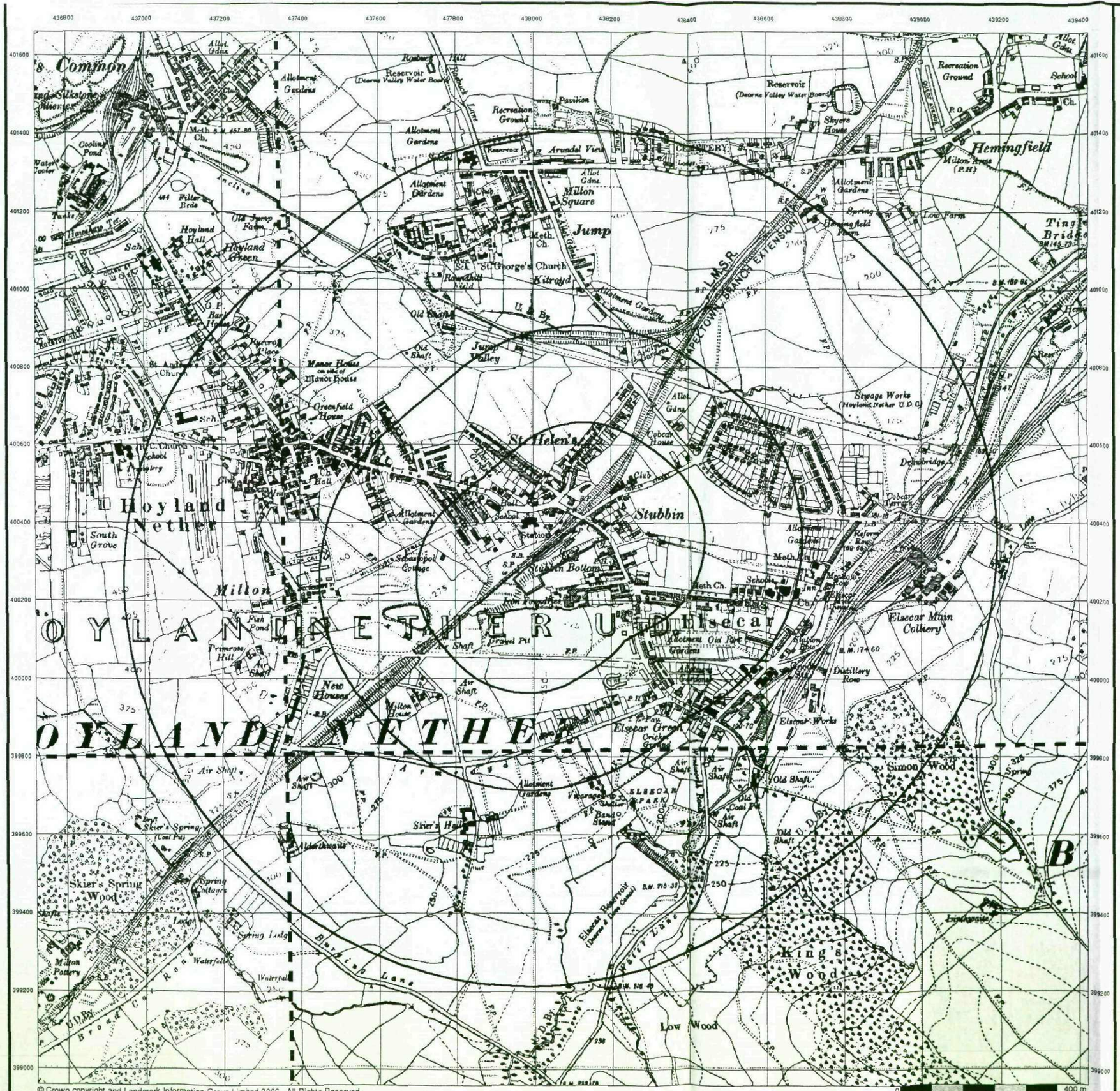
Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
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Site Area (Ha):	1.39
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Yorkshire

Published 1938 - 1948

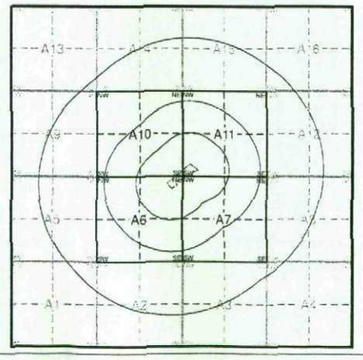
Source map scale - 1:10,560

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)

282_NE 1938	283_NW 1938
282_SE 1938	283_SW 1948

Historical Map - Slice A



Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
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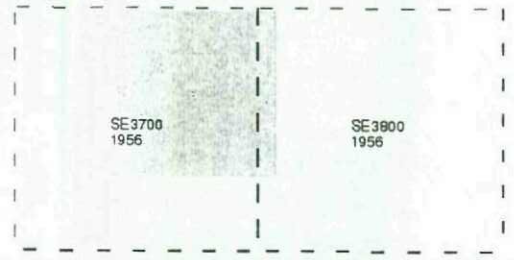
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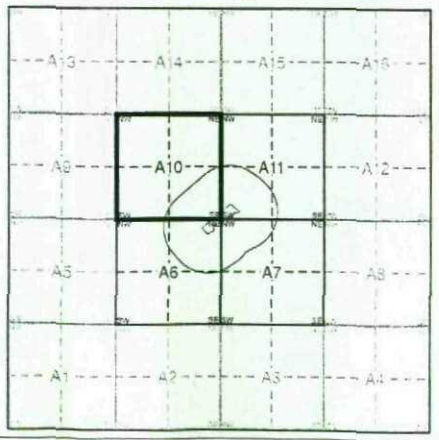
Ordnance Survey Plan
Published 1956
Source map scale - 1:2,500

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



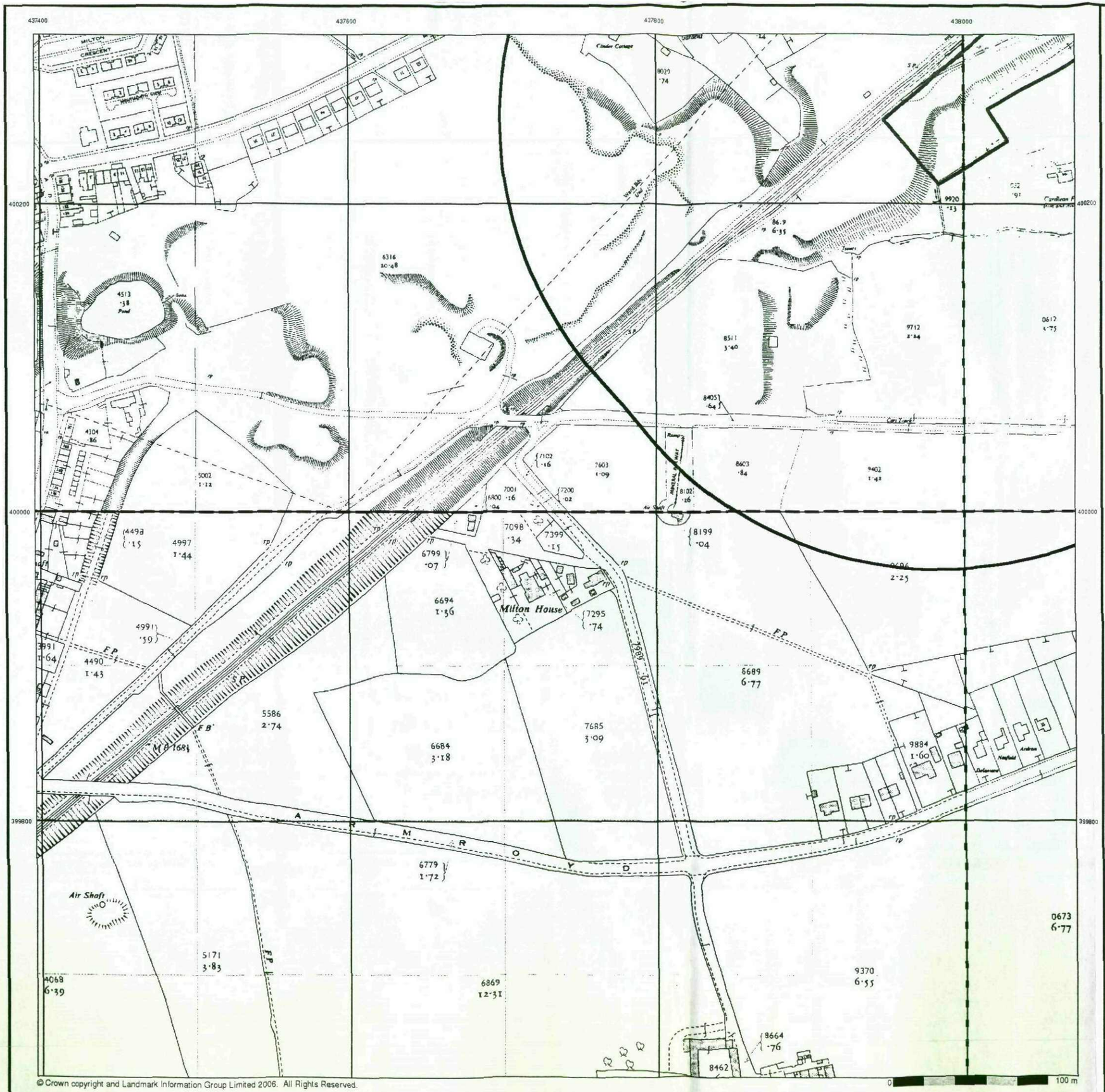
Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	250

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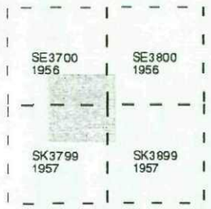
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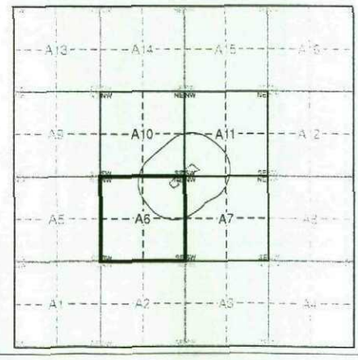
Ordnance Survey Plan
Published 1956 - 1957
Source map scale - 1:2,500

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:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
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Site Area (Ha):	1.39
Search Buffer (m):	250

Site Details

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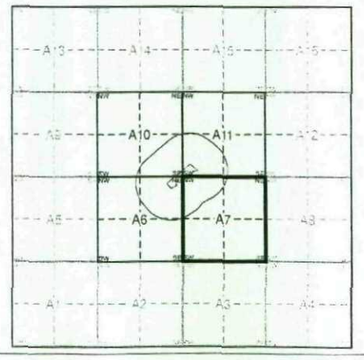
Ordnance Survey Plan
Published 1956
Source map scale - 1:1,250

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)

SE3800SW 1956	SE3800SE 1956
SK3899NW 1956	SK3899NE 1956

Historical Map - Segment A7



Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
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Site Area (Ha):	1.39
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Site Details

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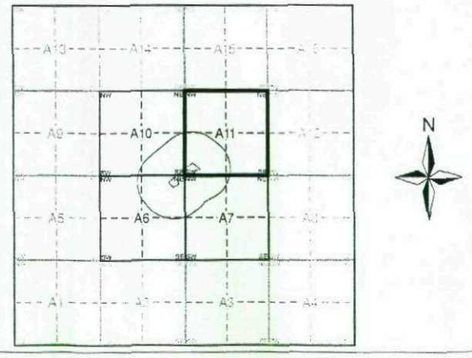
Ordnance Survey Plan
Published 1956
Source map scale - 1:1,250

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)

SE3800NW 1956	SE3800NE 1956
SE3800SW 1956	SE3800SE 1956

Historical Map - Segment A11



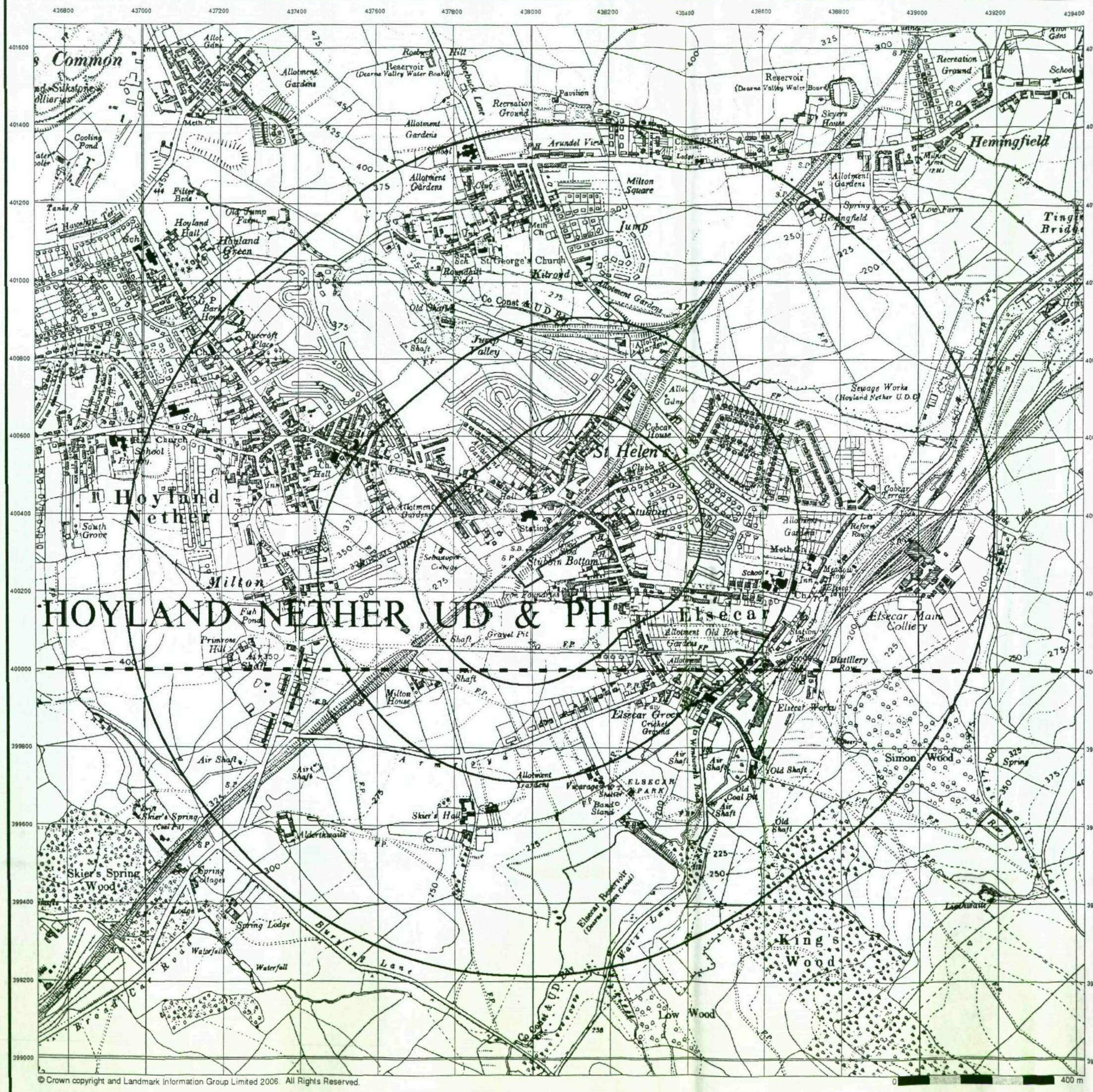
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Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	250

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Ordnance Survey Plan
Published 1956
Source map scale - 1:10,560

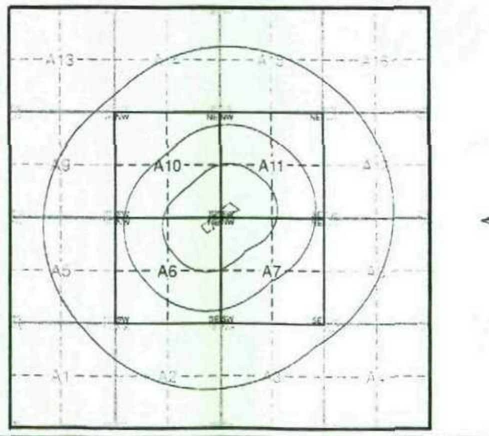
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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. The 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)

SE30SE
1956

SK39NE
1956

Historical Map - Slice A



Order Details

Order Number:	21038644_1_1
Customer Ref:	P3967
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	1000

Site Details

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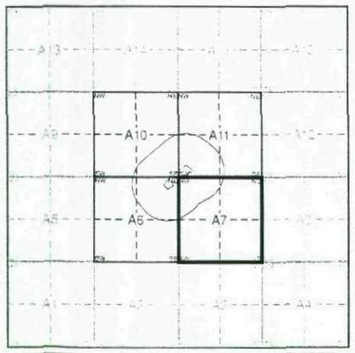
Ordnance Survey Plan
Published 1968 - 1976
Source map scale - 1:1,250

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)

SE3800SW 1968
SE3800SE 1970
SK3899NW 1976

Historical Map - Segment A7



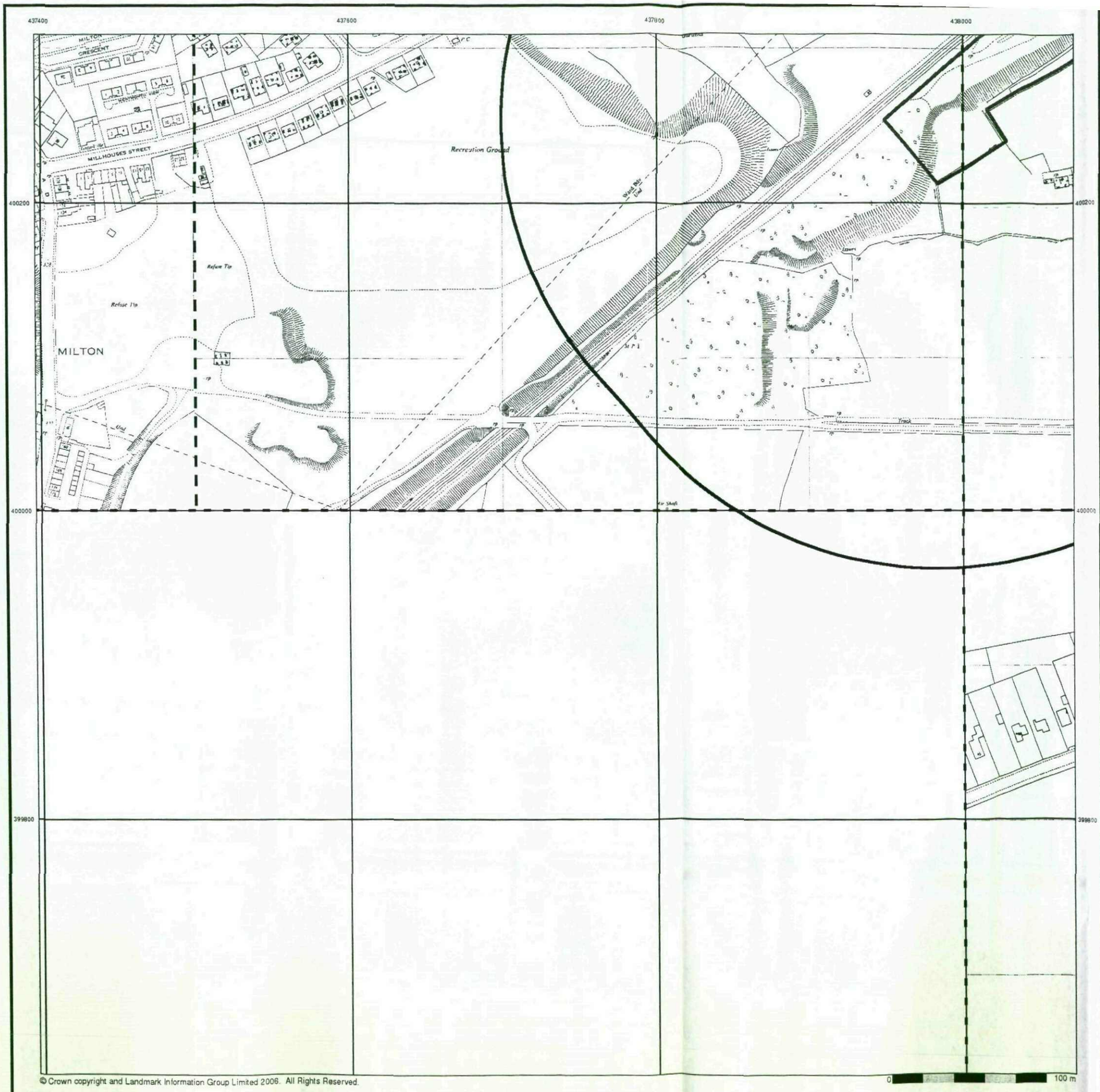
Order Details

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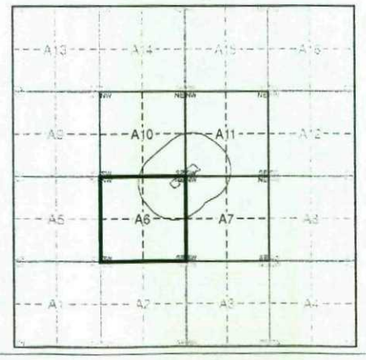
Ordnance Survey Plan
Published 1968 - 1976
Source map scale - 1:1,250

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)

SE3700SW 1968
SE3700SE 1968
SE3800SW 1968
SK3899NW 1976

Historical Map - Segment A6



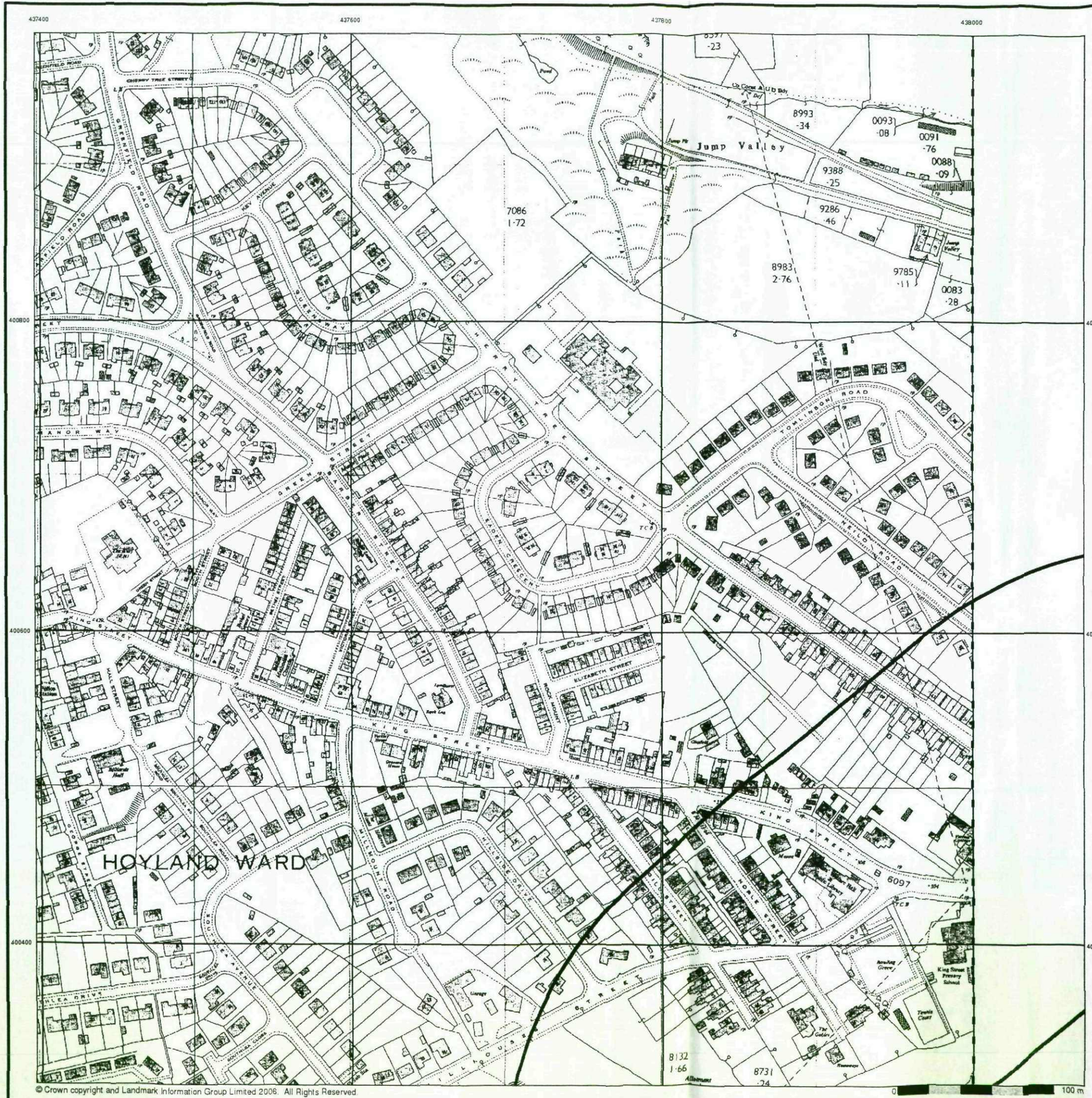
Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
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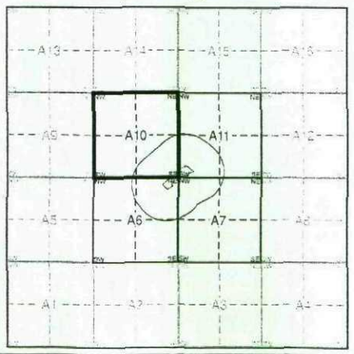
Ordnance Survey Plan
Published 1969
Source map scale - 1:2,500

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



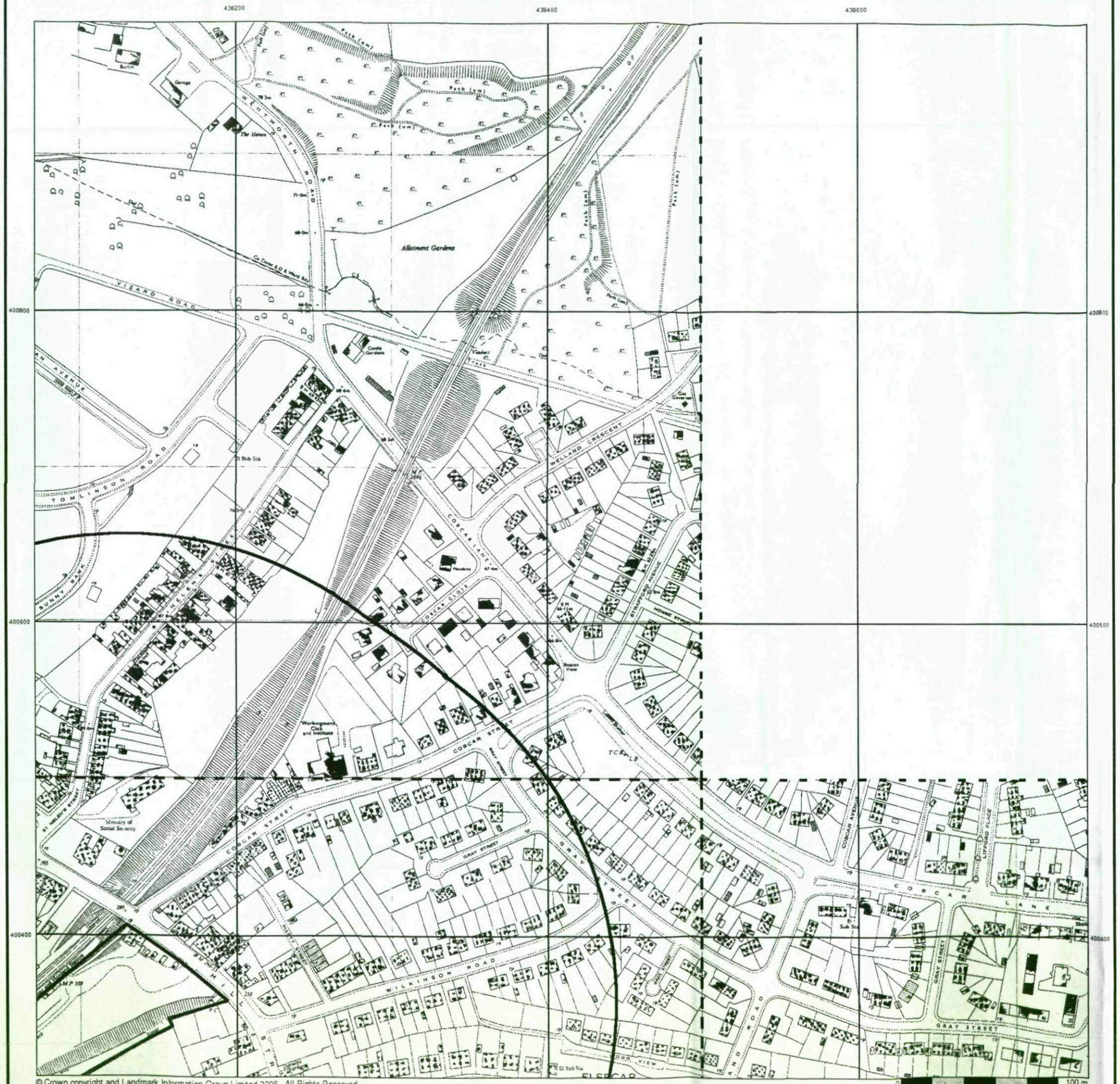
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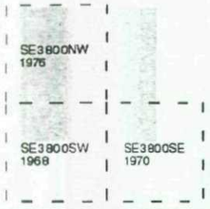
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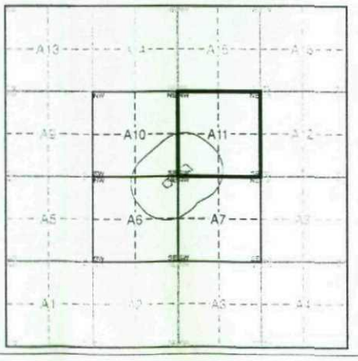
Ordnance Survey Plan
Published 1968 - 1976
Source map scale - 1:1,250

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

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Ordnance Survey Plan
Published 1965 - 1966
Source map scale - 1:10,560

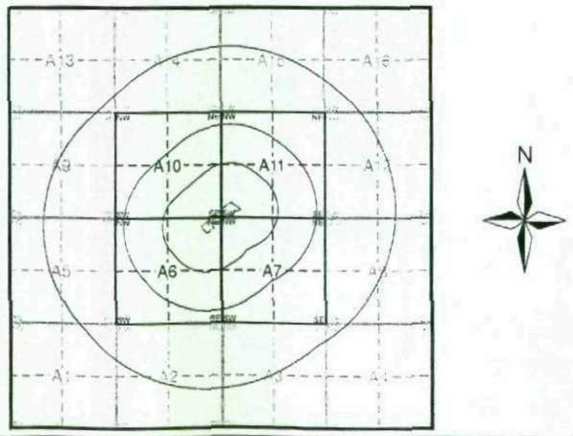
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SE30SE
1966

SK39NE
1965

Historical Map - Slice A



Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
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Ordnance Survey Plan
Published 1980 - 1982
Source map scale - 1:10,000

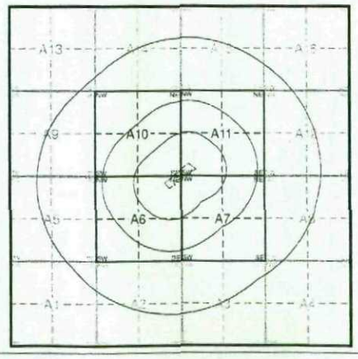
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SE30SE
1980

SK39NE
1982

Historical Map - Slice A



N

Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	1000

Site Details

Former Elsecar Railway Station, Hill Street, Elsecar, BARNSLEY, South Yorkshire, S74 8DB

LANDMARK Information Group
Tel: 0870 850 6670
Fax: 0870 850 6671
Web: www.envirocheck.co.uk



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Ordnance Survey Plan
Published 1989 - 1991
Source map scale - 1:10,000

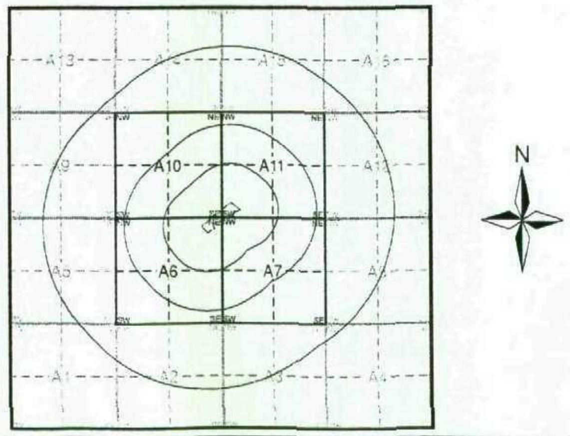
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SE30SE 1989

SK39NE 1991

Historical Map - Slice A



Order Details

Order Number: 21038644_1_1
Customer Ref: P3987
National Grid Reference: 438070, 400310
Sheet: A
Site Area (Ha): 1.39
Search Buffer (m): 1000

Site Details

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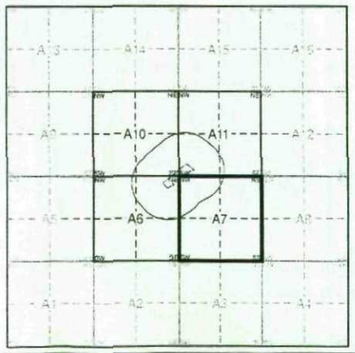
Large-Scale National Grid Data
Published 1993
Source map scale - 1:1,250

'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)

SE3800SW 1993	SE3800SE 1993
SK3899NW 1993	SK3899NE 1993

Historical Map - Segment A7



Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	250

Site Details

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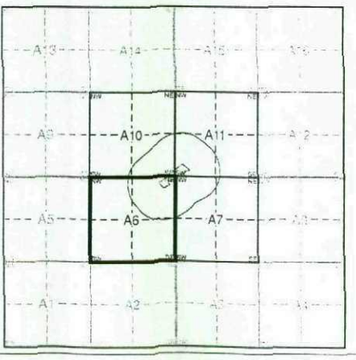
Large-Scale National Grid Data
Published 1993
Source map scale - 1:2,500

'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)



Historical Map - Segment A6



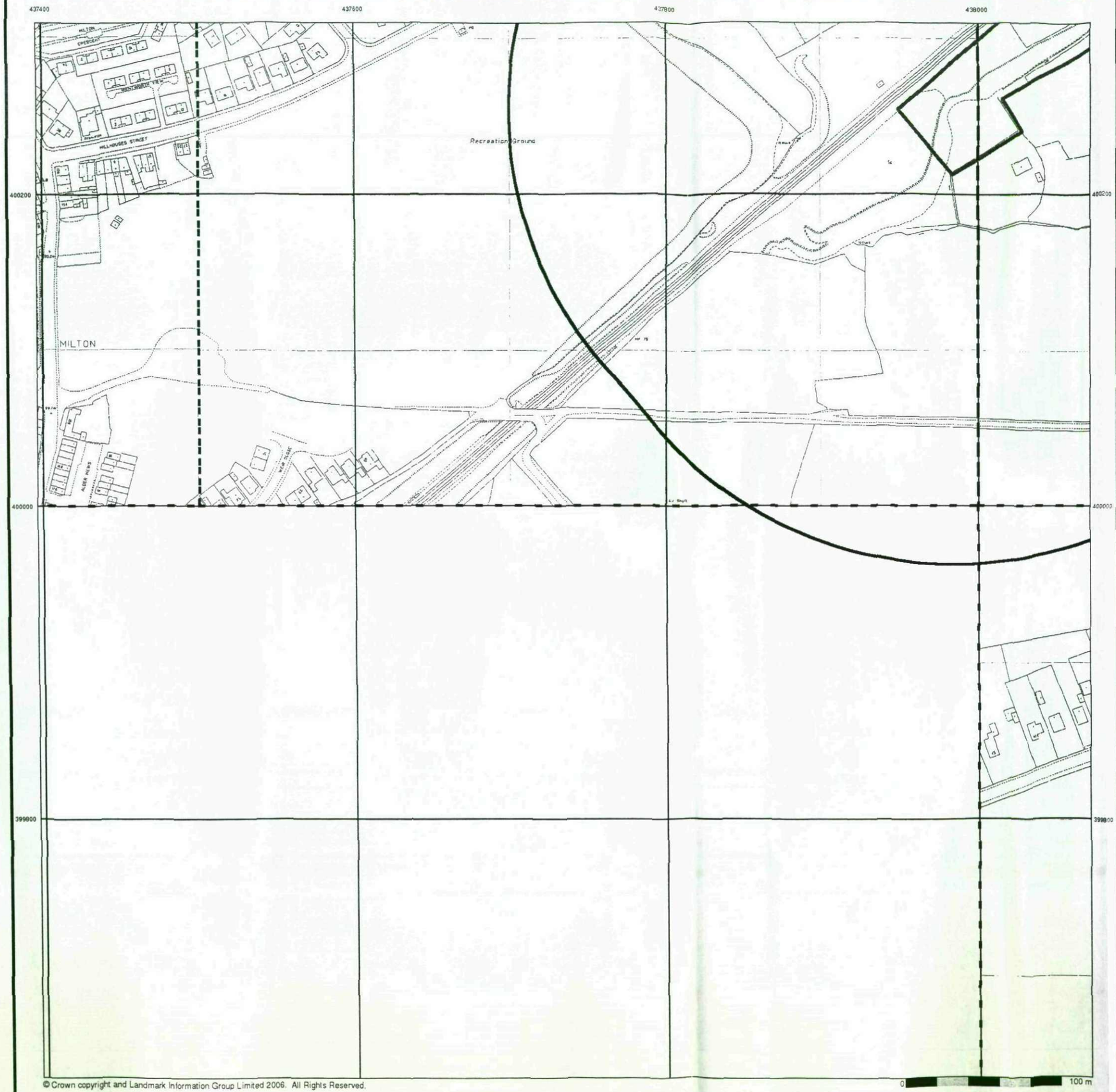
Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	250

Site Details

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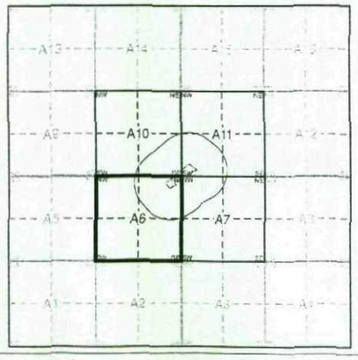
Large-Scale National Grid Data
Published 1993
Source map scale - 1:1,250

'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)

SE3700SW 1993 | SE3700SE 1993 | SE3800SW 1993
SK3899NW 1993

Historical Map - Segment A6



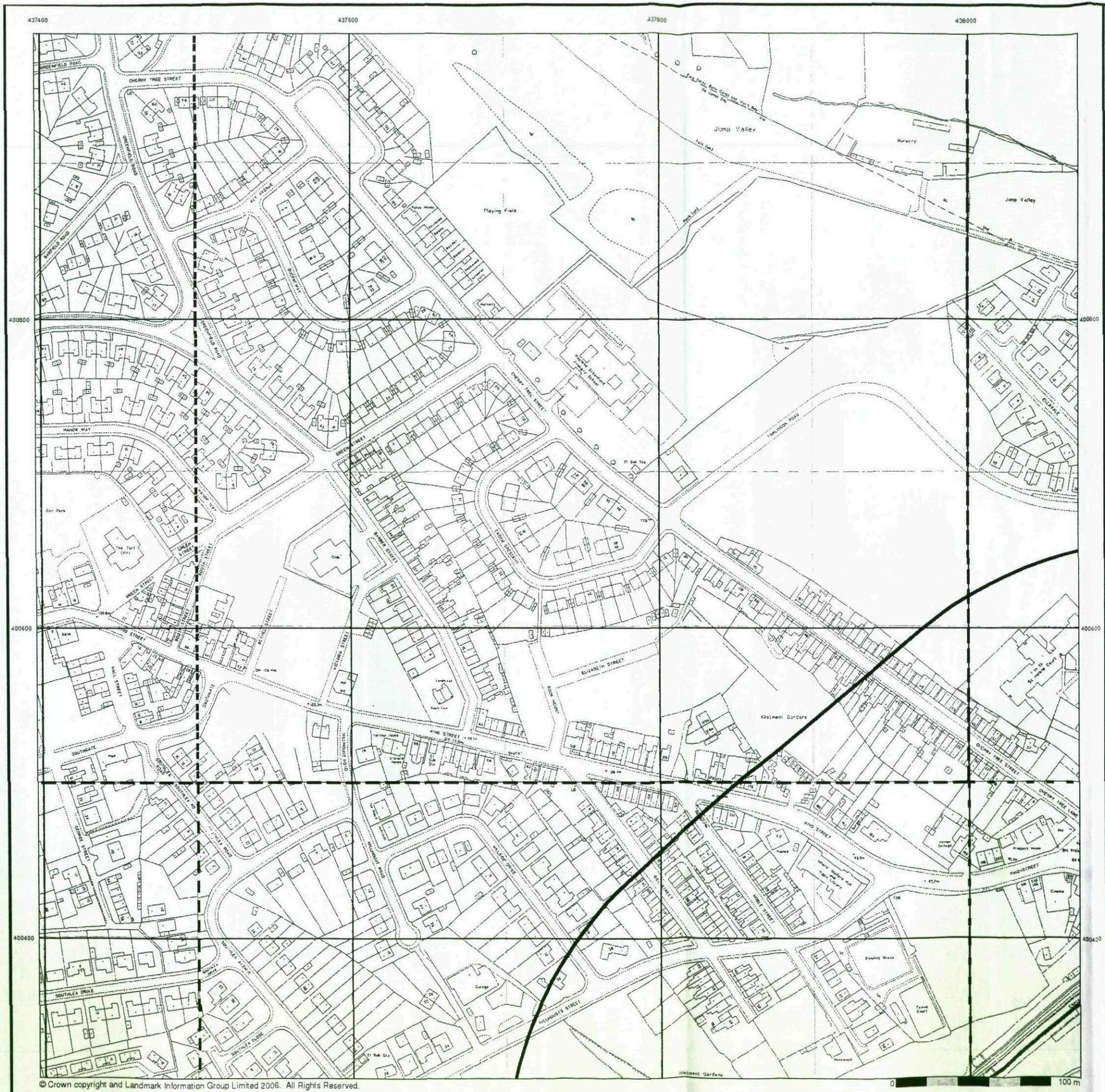
Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	250

Site Details

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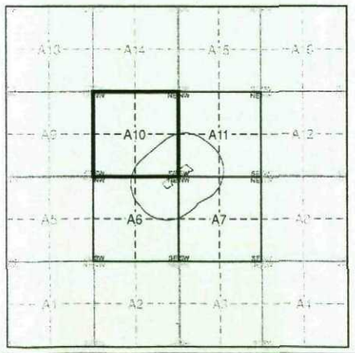
Large-Scale National Grid Data
Published 1993
Source map scale - 1:1,250

'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)

	SE3700NE 1993	SE3800NW 1993
SE3700SW 1993	SE3700SE 1993	SE3800SW 1993

Historical Map - Segment A10



Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	250

Site Details

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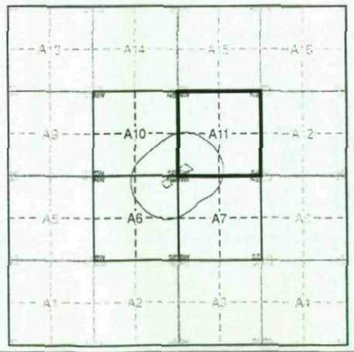
Large-Scale National Grid Data
Published 1993
Source map scale - 1:1,250

'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)

SE3800NW 1993 | SE3800NE 1993
SE3800SW 1993 | SE3800SE 1993

Historical Map - Segment A11



Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	250

Site Details

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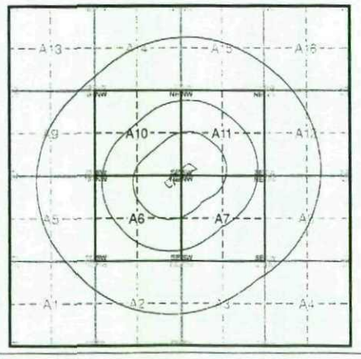
10K Raster Mapping
Published 2000
Source map scale - 1:10,000

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)



Historical Map - Slice A



N

Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	1000

Site Details

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10K Raster Mapping
Published 2004
Source map scale - 1:10,000

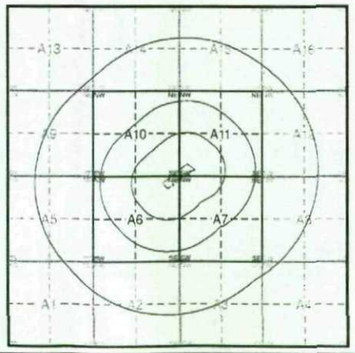
The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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)

SE30SE 2004

SK39NE 2004

Historical Map - Slice A



Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	1000

Site Details

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APPENDIX D

GRM Development Solutions
geoenvironmental - civil - structural

The Coal Authority

Issued by:
The Coal Authority, Mining Reports Office, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire NG18 4RG
On-Line Service: www.coalminingreports.co.uk - Phone: 0845 762 6848 - DX 716176 MANSFIELD 5

GROUND RISK MANAGEMENT LTD,
BRETBY BUISNESS PARK,
ASHBY ROAD,
BURTON-ON-TRENT,
STAFFORDSHIRE,
DE15 0YZ

Person dealing with this matter:	Darren Moody
Our reference:	00020165-07
Your reference:	P3987
Electronic Ref:	
RRUID:	007.00016611410001
Date of your enquiry:	01 February 2007
Date we received your enquiry:	02 March 2007
Date of issue:	02 March 2007

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

Coal and Brine Report

Elsecar Railway Station, Hill Street, Elsecar, 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	Yes
Brine extraction	No

Information from the Coal Authority

Underground Coal Mining

Past

The property is in the likely zone of influence from workings in 11 seams of coal at 40m to 390m depth, and last worked in 1979.

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

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past.

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.

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The property is not in an area for which a licence has been granted to remove 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.

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

At the surface, there are no known faults or other lines of weakness due to coal mining that have made the property unstable.

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

The Coal Authority has not received a damage notice or claim for the property since 1 January 1984. There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority has not received a request to carry out preventive work before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

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, following the reporting of an alleged coal mining related hazard under its Emergency Surface Hazard Call Out procedures.

Withdrawal of Support

The property is in an area for which a notice of entitlement to withdraw support was published in 1975.

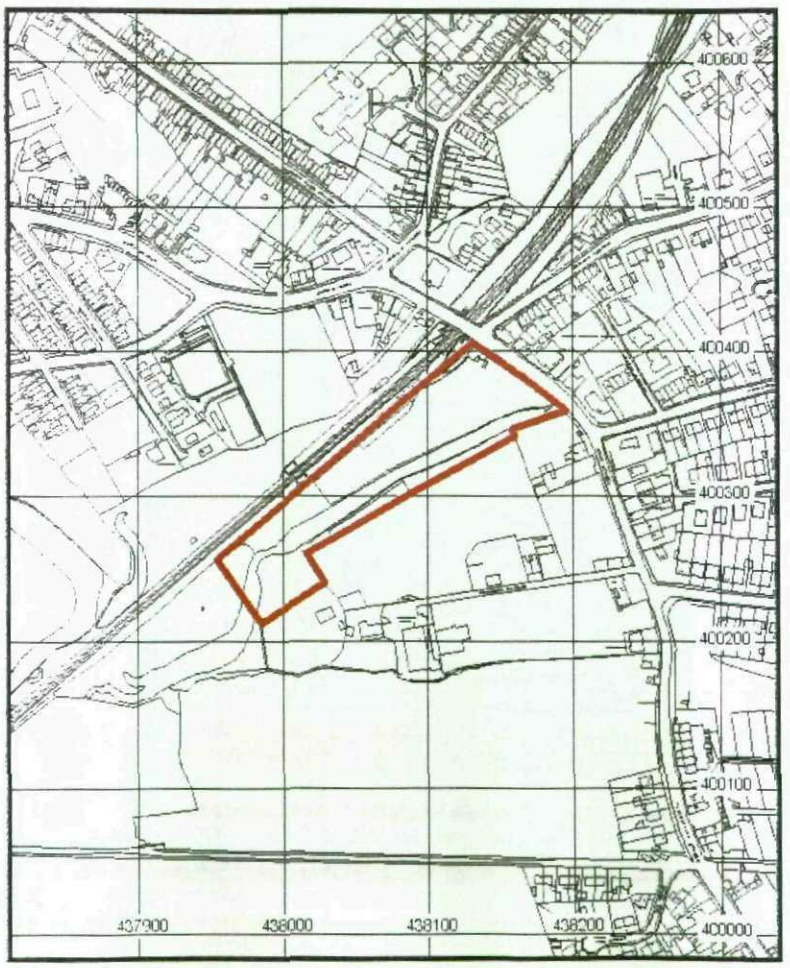
Location map

Approximate position of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown

Mapping sourced from Ordnance Survey®

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 in an area for which the Earl Fitzwilliam Order dated 1939 has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification.

The property is in an area for which the Newton Chambers Order dated 1936 has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification.

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.

Comments on Coal Authority information

Where development proposals are being considered, technical advice should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority.

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. The report is compliant with Home Information Pack requirements.

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Issued by:	The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG
Date:	02 Mar 2007
Ground stability report at:	Elsecar Railway Station, Hill Street, Elsecar, Barnsley, South Yorkshire
Reference number:	00020165-07
Cost:	£42.56
Plus VAT:	£7.44
Total received:	£50.00
VAT registration number:	598 5850 68

APPENDIX E

GRM Development Solutions
geoenvironmental - civil - structural

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Envirocheck® Report: Datasheet

Order Details:

Order Number:
21038644_1_1

Customer Reference:
P3987

National Grid Reference:
438070, 400310

Sheet:
A

Site Area (Ha):
1.39

Search Buffer (m):
1000

Site Details:

Former Elsecar Railway Station
Hill Street
Elsecar
BARNSLEY
South Yorkshire
S74 8DB

Client Details:

Dr B Peacock
Ground Risk Management
Bretby Business Park
Ashby Road
Burton-On-Trent
Staffordshire
DE15 0YZ

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Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	16
Hazardous Substances	-
Geological	18
Industrial Land Use	20
Sensitive Land Use	24
Data Currency	25
Data Suppliers	29
Useful Contacts	30

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		1	3	26
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 8				3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 8	Yes			
Pollution Incidents to Controlled Waters	pg 9			3	12
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 11				3
River Quality Biology Sampling Points	pg 12				3
River Quality Chemistry Sampling Points	pg 13				1
Substantiated Pollution Incident Register	pg 13			1	
Water Abstractions	pg 13				2 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 15	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Waste					
BGS Recorded Landfill Sites	pg 16		1		
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites	pg 16			2	2
Registered Landfill Sites	pg 17				1
Registered Waste Transfer Sites	pg 17			1	
Registered Waste Treatment or Disposal Sites					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS Recorded Mineral Sites					
BGS 1:625,000 Solid Geology	pg 18	Yes	n/a	n/a	n/a
Brine Compensation Areas			n/a	n/a	n/a
Coal Mining Affected Areas	pg 18	Yes	n/a	n/a	n/a
Mining Instability	pg 18	Yes	n/a	n/a	n/a
Natural and Mining Cavities					
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 18	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Radon Affected Areas			n/a	n/a	n/a
Radon Protection Measures		Yes	n/a	n/a	n/a
Shallow Mining Hazards		Yes	Yes	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 20		3	3	28
Fuel Station Entries					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt	pg 24			1	1
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 24				1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 24	1	1		
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Discharge Consents** Operator: British Coal Corporation Property Type: Undefined Or Other Location: Elsecar Main Colliery N.C.B. -1- (C, Losed) Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3628 Permit Version: 1 Effective Date: 6th September 1982 Issued Date: 6th September 1982 Revocation Date: 8th August 1991 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Not Supplied **Status: Authorisation revoked|Revoked** Positional Accuracy: Located by supplier to within 100m	A12SE (E)	918	1	439100 400500
15	**Discharge Consents** Operator: P. Hepworth, R. Lambert, K.Herbert & M. Lea Property Type: Undefined Or Other Location: Low Farm, Off Cemetery Road, Hemingfield, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C5207 Permit Version: 1 Effective Date: 8th August 1988 Issued Date: 8th August 1988 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Land Adjacent To Low Farm **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A15SE (NE)	977	1	438700 401200
16	**Local Authority Pollution Prevention and Controls** Name: Brobot Petroleum Ltd Location: 73 Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/50 Dated: 24th March 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A9NE (NW)	966	2	437226 400894
16	**Local Authority Pollution Prevention and Controls** Name: Brobot Petroleum Limited Location: A, 65 Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa/Petrol16 Dated: 24th March 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A9NE (NW)	966	2	437226 400894
16	**Local Authority Pollution Prevention and Controls** Name: Auto Repairs (Winchglade) Ltd Location: 65 Market Street, Hoyland, Barnsley, South Yorkshire, S74 0ET Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/34 Dated: 17th September 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A9NE (NW)	966	2	437226 400894
	Nearest Surface Water Feature	A6NE (SW)	0	-	438013 400262

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**River Quality Chemistry Sampling Points** Name: Elsecar Canal (Disused) Reach: Harley To Knoll Beck Estimated Distance: 1.90 Objective: River Ecosystem Class 4: Fair Quality Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1994 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Compliant Year: 1996 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Compliant Year: 1997 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Compliant Year: 1998 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Marginal Year: 1999 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Marginal Year: 2000 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Compliant Year: 2001 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Compliant Year: 2002 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Compliant Year: 2003 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Compliant Year: 2004 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Compliant Year: 2005 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Compliant	A3NW (S)	938	1	438200 399300
34	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Ridings Area Incident Date: 8th October 2002 Incident Reference: 113408 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A11NW (N)	431	1	438259 400817
35	**Water Abstractions** Operator: British Coal Board Licence Number: 2/27/08/009 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1309 Yearly Rate (m3): 363680 Details: Licence Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (E)	609	1	438800 400300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	**Water Abstractions** Operator: British Coal Licence Number: 2/27/08/010 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 14 Yearly Rate (m3): 3410 Details: Licence Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	825	1	438800 399800
	Water Abstractions Operator: H J Banks (Mining) Ltd Licence Number: 2/27/08/136 Permit Version: 1 Location: Borehole-Coal Measures-Wombwell Authority: Environment Agency, North East Region Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Woodhead Opencast Site,Woodhead Lane,Wombwell,Barnsley Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 25th May 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1619	1	437710 401970
	Water Abstractions Operator: H J Banks (Mining) Ltd Licence Number: 2/27/08/136 Permit Version: 1 Location: Borehole-Coal Measures-Wombwell Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Woodhead Opencast Site,Woodhead Lane,Wombwell,Barnsley Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 25th May 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1619	1	437710 401970
	Water Abstractions Operator: H J Banks & Co Ltd Licence Number: 2/27/08/130 Permit Version: 1 Location: Borehole-Coal Measures-Wombwell Authority: Environment Agency, North East Region Abstraction: Mineral Products: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Woodhead Opencast Site,Woodhead Lane,Wombwell,Barnsley Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 28th November 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1619	1	437710 401970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	**BGS Recorded Landfill Sites** Site Name: Cinder Cottage Site Location: Millhouses St, HOYLAND NETHER, South Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A6NE (W)	64	3	437888 400238
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	2	438810 399904
	Local Authority Landfill Coverage Name: Rotherham Borough Council - Has supplied landfill data		764	9	438810 399904
38	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 155 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards **Last Reported Status:** **Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A6NW (W)	271	2	437680 400230
39	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 124 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards **Last Reported Status:** **Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A11NW (N)	477	2	438262 400864
40	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 150 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards **Last Reported Status:** **Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A14SE (NW)	705	2	437751 401001
41	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 39 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards **Last Reported Status:** **Unknown** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A9NE (NW)	952	2	437311 400962

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Registered Landfill Sites				
42	Licence Holder: T & W Brown Licence Reference: WD20 B 465 MOD 1 Site Location: 65 Market Street, Hoyland, BARNSLEY, South Yorkshire, S74 0ET Licence Easting: 437270 Licence Northing: 400950 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrendered|Cancelled Dated: 1st May 1985 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Builders Rubble Construction And Demolition Wastes Excav,N Waste, Soil, Subsoil Prohibited Waste: All Forms Of Asbestos Liq/Slurry In Drum/Cont'Rs > 4 L Cap'Y	A9NE (NW)	973	1	437270 400950
	Registered Waste Transfer Sites				
43	Licence Holder: Barnsley M.B.C. Licence Reference: WD 5 B 1 Site Location: Milton Road, Hoyland, Barnsley, South Yorkshire Operator Location: Cleansing Div. Smithies La.Depot, Barnsley, South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrendered|Cancelled Dated: 1st November 1979 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Civic Amenity/Refuse Amenity Waste	A6NW (W)	475	1	437500 400100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Westphalian (mainly Productive Coal Measures)	(NE)	0	3	440362 403427
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	(W)	0	4	426000 396000
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	(NE)	0	-	440000 403500
	Potential for Collapsible Ground Stability Hazards No Hazard				
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	3	438069 400000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	213	3	438069 400000
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	3	438069 400300
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (N)	0	3	438069 400375
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (E)	0	3	438100 400309
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (E)	0	3	438075 400309
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NW (E)	0	3	438075 400309
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	3	438069 400275
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	3	438050 400275
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	3	437975 400250
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	3	438000 400250
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	18	3	437950 400225
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	21	3	438175 400400
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	39	3	437975 400175
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (N)	44	3	438125 400450
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	72	3	438150 400475

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (W)	74	3	437875 400250
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (W)	88	3	437875 400309
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	104	3	438175 400500
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	213	3	438069 400000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	250	3	438250 400625
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	3	438069 400000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	213	3	438069 400000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	3	438069 400300
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	3	438069 400300
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	213	3	438069 400000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	228	3	437825 400050
	Radon Affected Areas Description: Less than 1% of homes are above the Action Level Source: Health Protection Agency	A6NE (W)	0	5	438000 400309
	Radon Affected Areas Description: Less than 1% of homes are above the Action Level Source: Health Protection Agency	A6NE (W)	0	5	438000 400309
	Radon Protection Measures Type: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	3	438127 400270
	Radon Protection Measures Type: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	3	438127 400270
	Shallow Mining Hazards Risk: Low-Moderate Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	3	438022 400349
	Shallow Mining Hazards Risk: Low-Moderate Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	6	3	438022 400349

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**Contemporary Trade Directory Entries** Name: Goldthorpe Car Centre Location: Warings Yard, Hill Street, Elsecar, Barnsley, South Yorkshire, S74 8EL Classification: Garage Services **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A7NW (E)	43	-	438178 400304
45	**Contemporary Trade Directory Entries** Name: M D Patterns Location: Wilkinson Road, Elsecar, Barnsley, South Yorkshire, S74 8JT Classification: Pattern Makers - Industrial **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A11SW (E)	65	-	438255 400338
46	**Contemporary Trade Directory Entries** Name: Stewarts Fabrications Location: 2, Beacon View, Elsecar, Barnsley, South Yorkshire, S74 8JA Classification: Wrought Ironwork **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A7NW (E)	182	-	438350 400266
47	**Contemporary Trade Directory Entries** Name: G L S Services Location: 35, Armroyd Lane, Elsecar, Barnsley, South Yorkshire, S74 8ET Classification: Mirrors & Decorative Glass **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A7SW (S)	354	-	438079 399872
48	**Contemporary Trade Directory Entries** Name: Crown Garage (Elsecar) Ltd Location: Fitzwilliam St, Elsecar, Barnsley, South Yorkshire, S74 8EA Classification: Garage Services **Status:** **Active** Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SE)	384	-	438321 399992
49	**Contemporary Trade Directory Entries** Name: Seal-A-Wheel Location: 10, Southlea Avenue, Hoyland, Barnsley, South Yorkshire, S74 9LD Classification: Tyre Repairs & Retreading **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10SW (W)	437	-	437551 400435
50	**Contemporary Trade Directory Entries** Name: Elsecar Garden Products Location: Elsecar Heritage Centre, Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Garden & Patio Furniture Manufacturers & Distributors **Status:** **Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A7SE (SE)	506	-	438515 399969
50	**Contemporary Trade Directory Entries** Name: Barnsley Brewing Co Ltd Location: 2, Wath Road, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Brewers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (SE)	511	-	438491 399944
50	**Contemporary Trade Directory Entries** Name: Ticket Mart Ltd Location: Elsecar Workshops,Wath Rd, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Printers **Status:** **Active** Positional Accuracy: Manually positioned to the road within the address or location	A7SE (SE)	524	-	438530 399957
50	**Contemporary Trade Directory Entries** Name: Elsecar Antiques Centre Location: Building 18,Elsecar Heritage Centre,Wath Rd, Elsecar, Barnsley, South Yorkshire, S74 8HJ Classification: Antiques - Repairing & Restoring **Status:** **Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7SE (SE)	525	-	438530 399956
51	**Contemporary Trade Directory Entries** Name: Barnsley Cash Registers Location: 2b, Bethel Street, Hoyland, Barnsley, South Yorkshire, S74 9JZ Classification: Cash Registers & Check-Out Equipment **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A10SW (NW)	536	-	437526 400582



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General
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- Pylon
- Overhead Transmission Line

Agency and Hydrological
- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

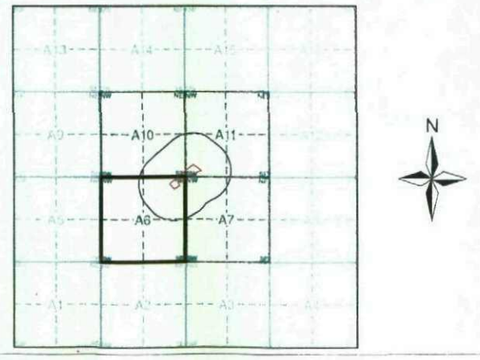
Waste
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances
- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological
- BGS Recorded Mineral Site

Industrial Land Use
- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A6



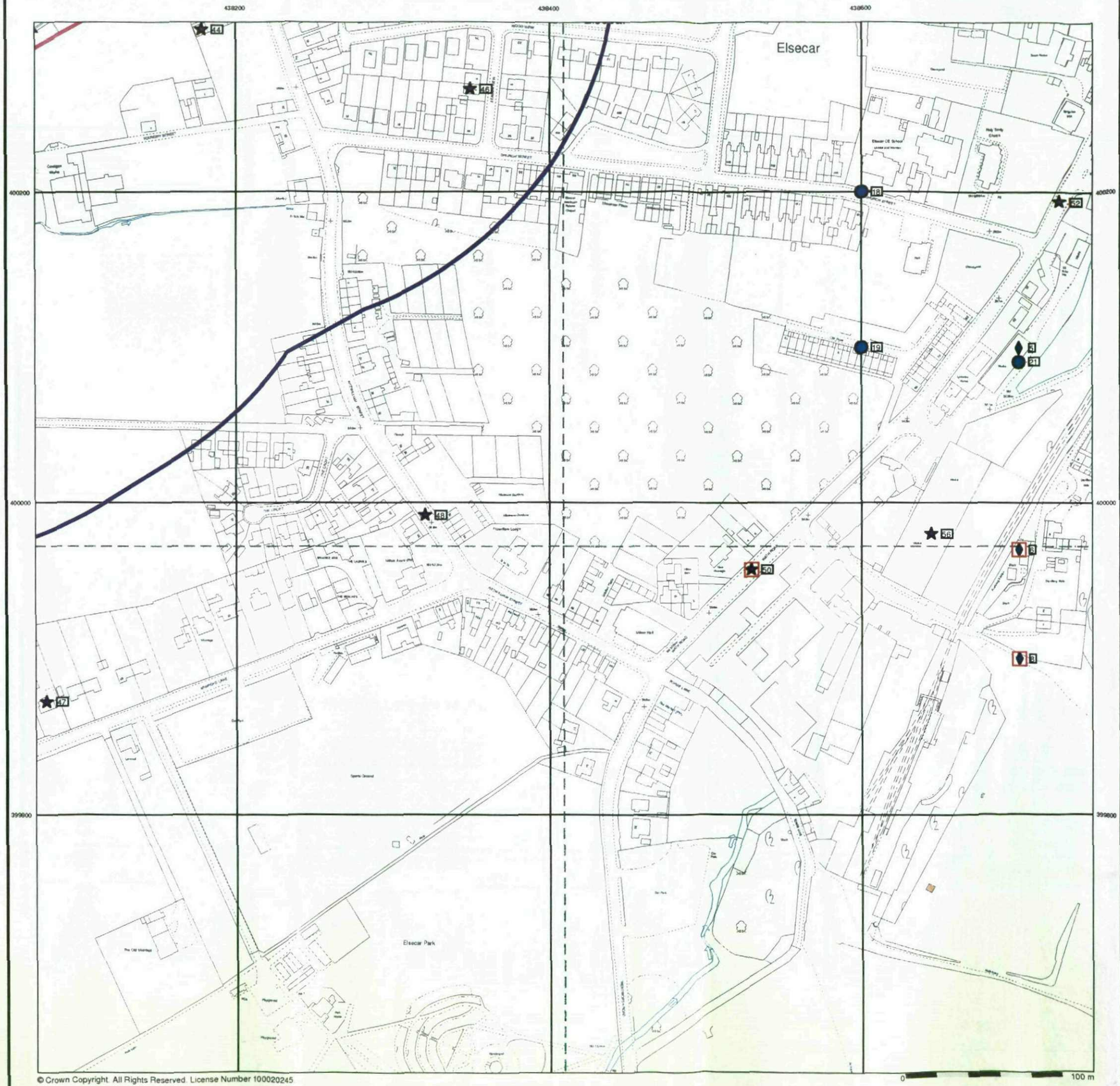
Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Plot Buffer (m):	250

Site Details

Former Elsecar Railway Station, Hill Street, Elsecar, BARNSLEY, South Yorkshire, S74 8DB

LANDMARK Information Group
Tel: 0870 850 6670
Fax: 0870 850 6671
Web: www.envirocheck.co.uk



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General
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- Pylon
- Overhead Transmission Line

Agency and Hydrological
- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

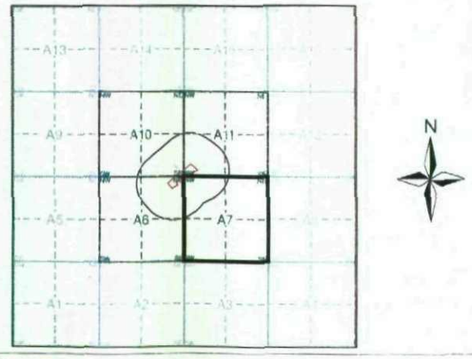
Waste
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances
- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological
- BGS Recorded Mineral Site

Industrial Land Use
- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A7



Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Plot Buffer (m):	250

Site Details

Former Elsecar Railway Station, Hill Street, Elsecar, BARNSLEY, South Yorkshire, S74 8DB

LANDMARK Information Group
Tel: 0870 850 6670
Fax: 0870 850 6671
Web: www.envirocheck.co.uk



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General
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- Pylon
- Overhead Transmission Line

Agency and Hydrological
- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

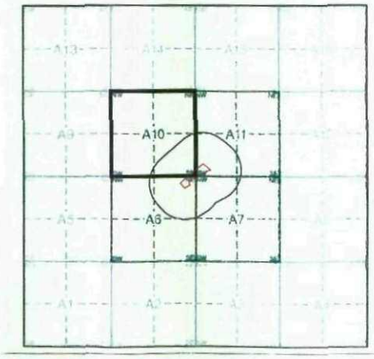
Waste
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances
- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Geological
- BGS Recorded Mineral Site

Industrial Land Use
- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A10



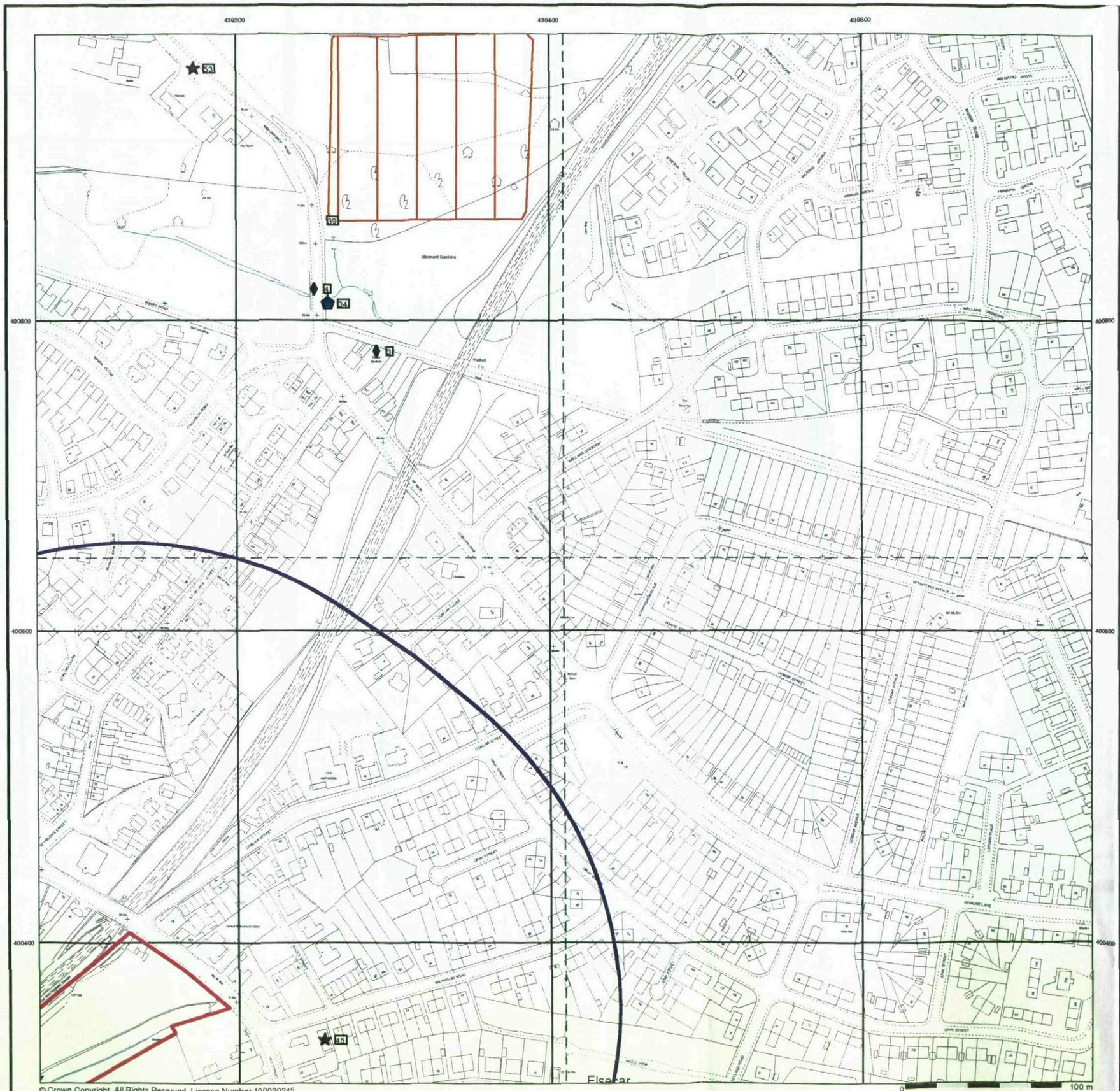
Order Details

Order Number:	21038644_1_1
Customer Ref:	P3987
National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Plot Buffer (m):	250

Site Details

Former Elsecar Railway Station, Hill Street, Elsecar, BARNSLEY, South Yorkshire, S74 8DB

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- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

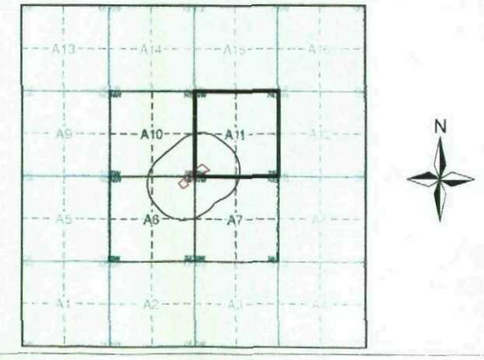
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A11



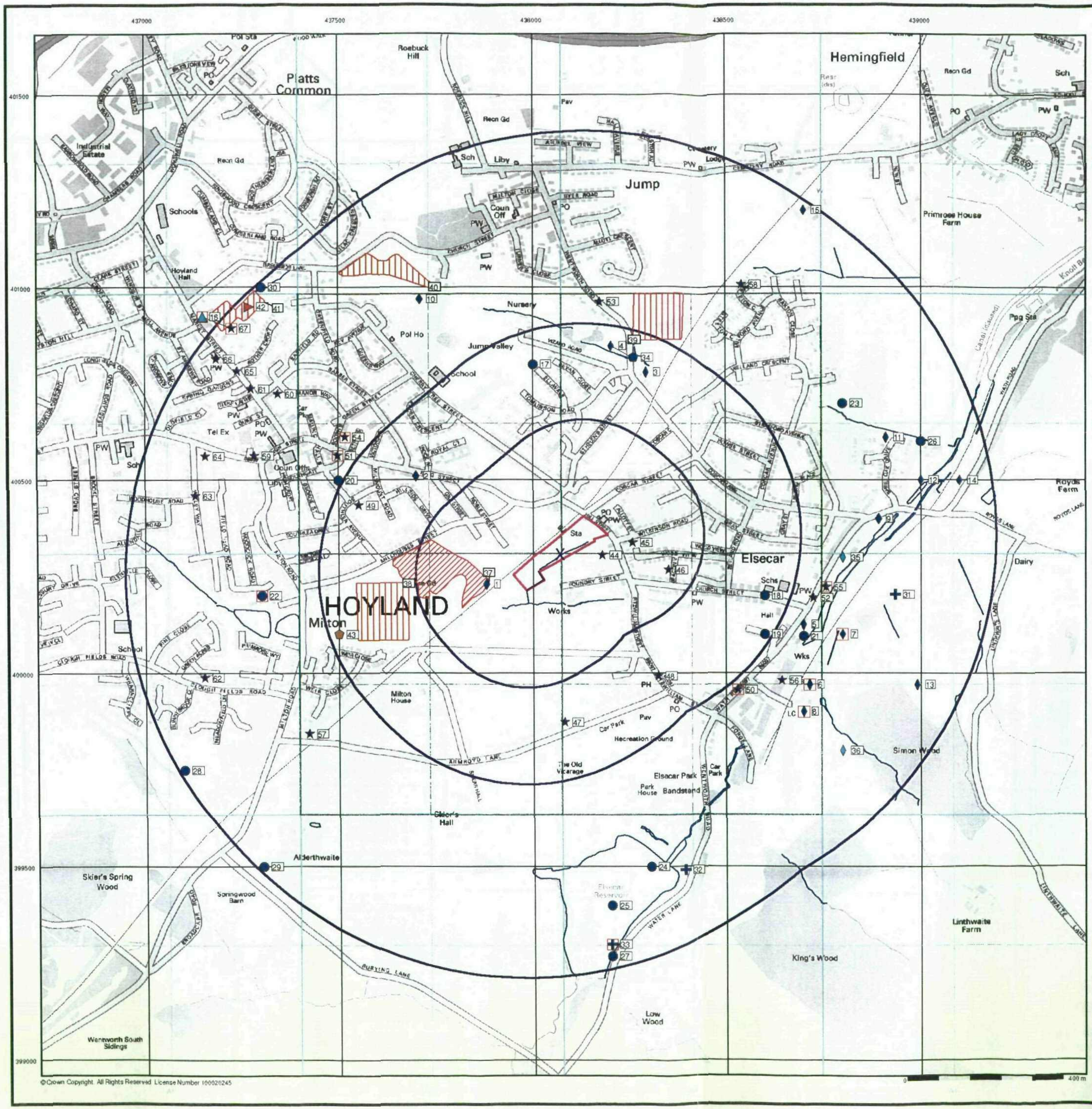
Order Details

Order Number:	21038644_1_1
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National Grid Reference:	438070, 400310
Sheet:	A
Site Area (Ha):	1.39
Plot Buffer (m):	250

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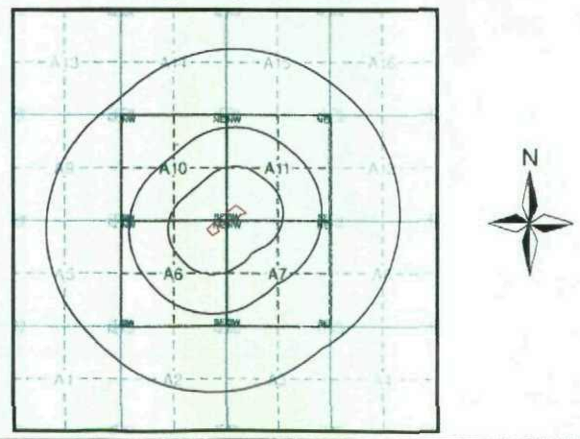
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



Order Details

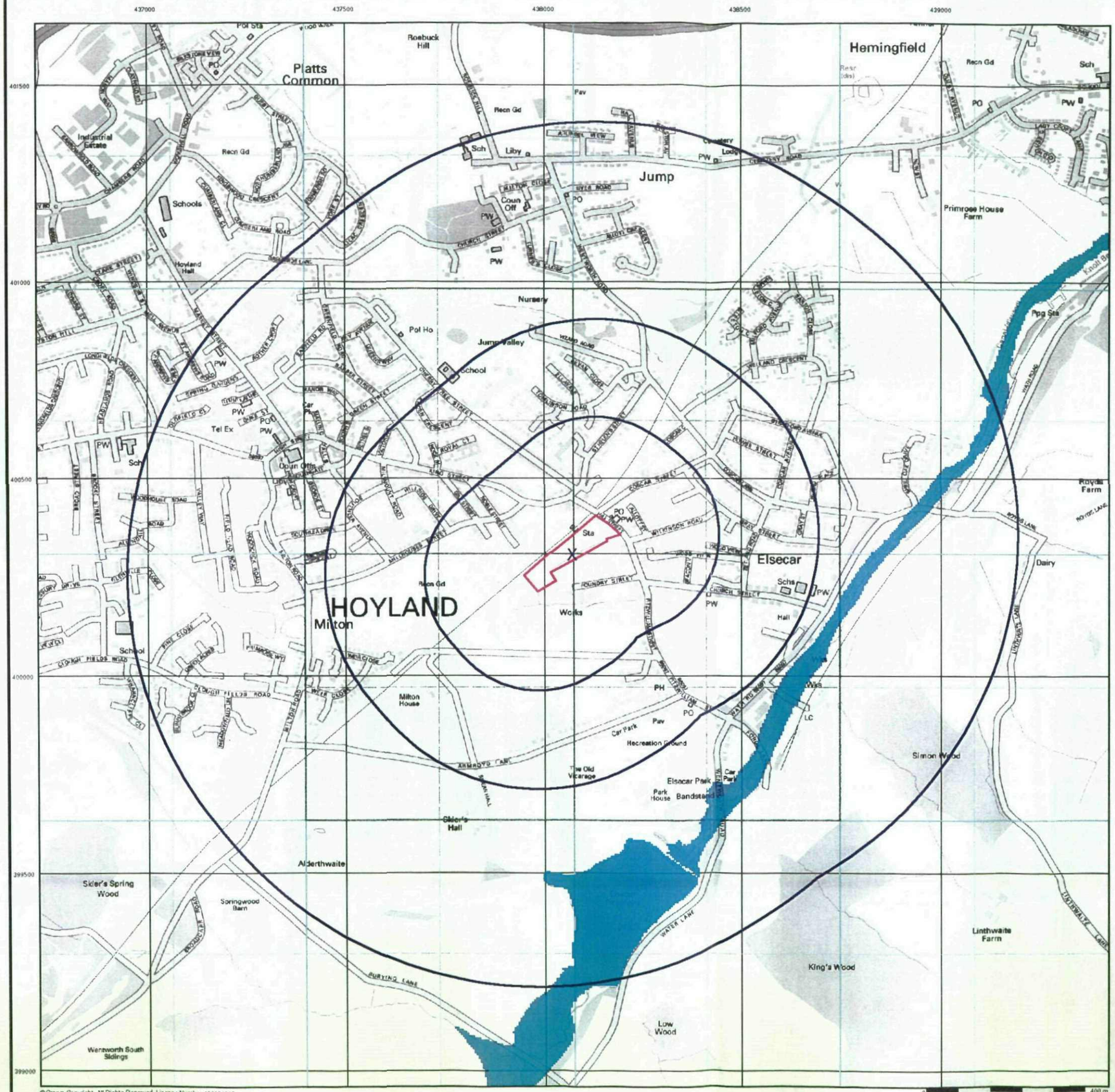
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Customer Ref: P3987
National Grid Reference: 438070, 400310
Sheet: A
Site Area (Ha): 1.39
Search Buffer (m): 1000

Site Details

Former Elsecar Railway Station, Hill Street, Elsecar, BARNSLEY, South Yorkshire, S74 8DB

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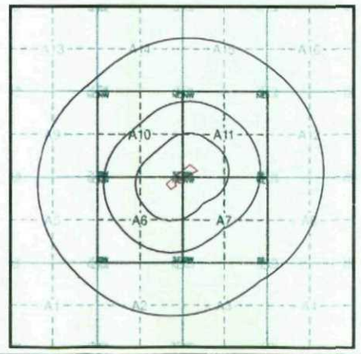
General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

Order Number:	21038644_1_1
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Site Details

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Agency and Hydrological

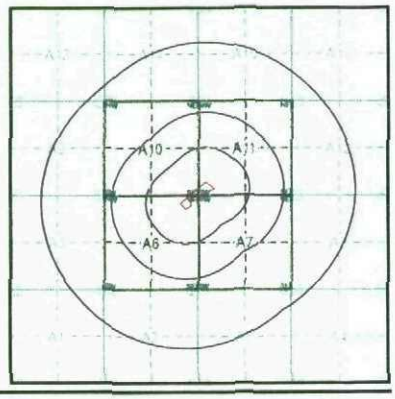
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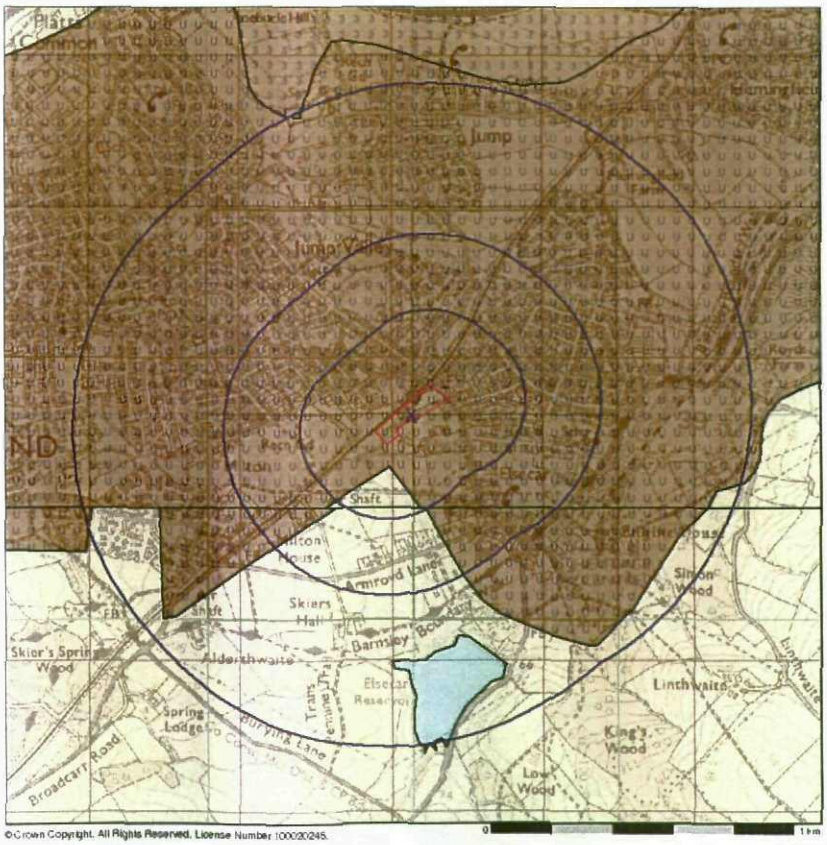
Order Number:	21038644_1_1
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Site Details

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Groundwater Vulnerability - Slice A





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Background

- Footpath
- Bridleway
- Byway open to all traffic
- Road Used as a Public Path
- Other routes with Public Access
- National Trail or Long Distance Route
- Contour
- Fishing
- Nature Reserve

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency & Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

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Agency and Hydrological

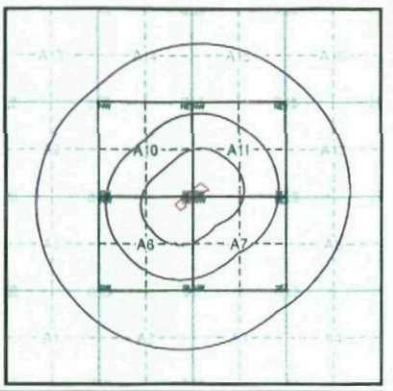
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Order Number:	21038644_1_1
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Sheet:	A
Site Area (Ha):	1.39
Search Buffer (m):	1000

Site Details

Former Elsecar Railway Station, Hill Street, Elsecar, BARNSLEY, South Yorkshire, S74 8DB

Source Protection Zones - Slice A





Background

- Footpath
- Bridleway
- Byway open to all traffic
- Road Used as a Public Path
- Other routes with Public Access
- National Trail or Long Distance Route
- Contour
- Fishing
- Nature Reserve

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

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Agency and Hydrological

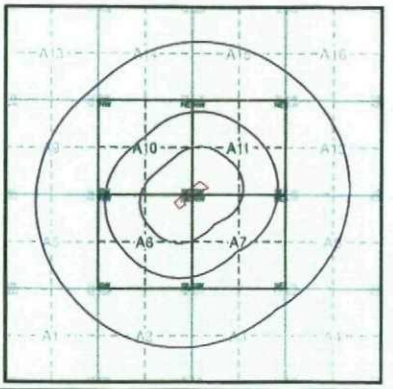
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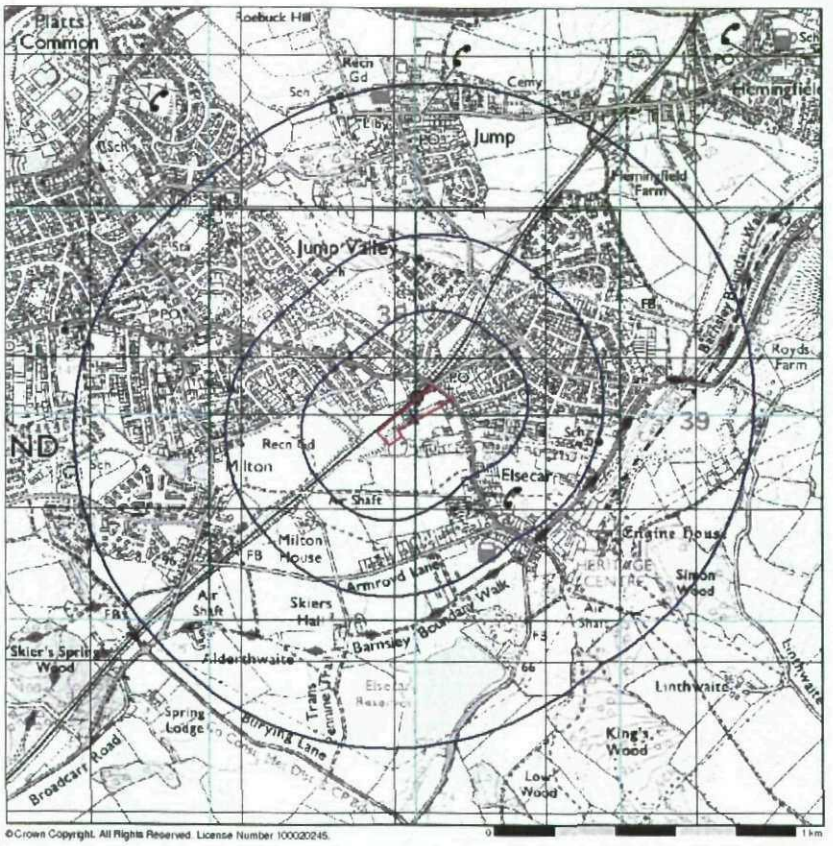
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Site Details

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Source Protection Zones - Slice A





Background

- Footpath
- Bridleway
- Byway open to all traffic
- Road Used as a Public Path
- Other routes with Public Access
- National Trail or Long Distance Route
- Contour
- Fishing
- Nature Reserve

General

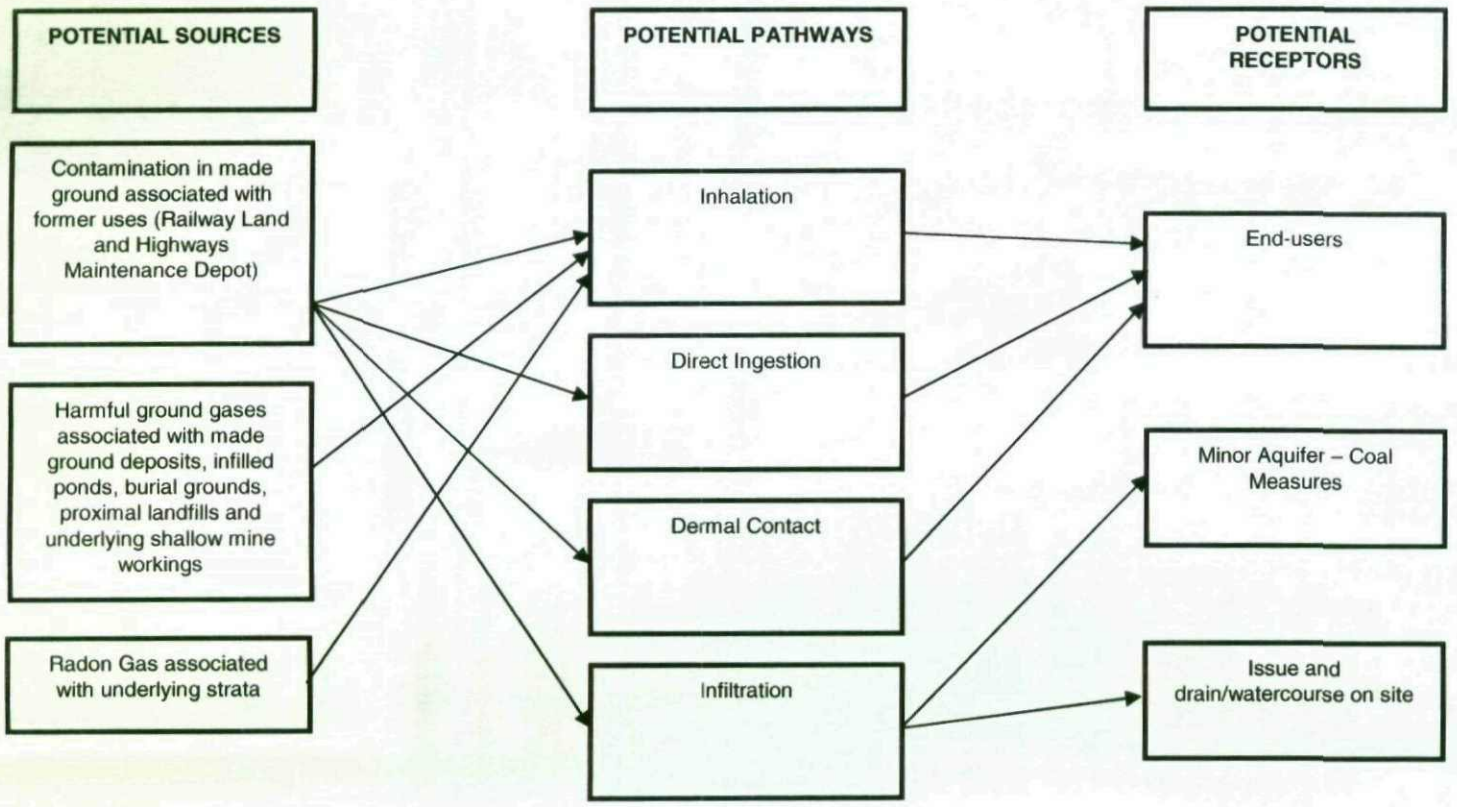
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- 8 Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

APPENDIX F

GRM Development Solutions
geoenvironmental - civil - structural



N

DO NOT SCALE

NOTES:

GRM Development Solutions

GROUND RISK MANAGEMENT
Bretby Business Park,
Burton-on-Trent, Staffs, DE15 0YZ
Tel: 01283 551249 Fax: 01283 211968

CLIENT:
John Church Planning Consultancy Ltd

PROJECT:
Former Elsecar Railway Station, Hill Street, Elsecar, Barnsley.

TITLE:
Phase I Conceptual Model

SCALE @ SIZE	ISSUE
NTS	FINAL
DESIGN/DRAWN: SW	DATE: February 2007
PROJECT No: P3987	DRAWING No: Figure 4

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