

**DESK STUDY AND
GEO-ENVIRONMENTAL REPORT**

**AT
LAND AT THURNSCOE
BARNSELY**

**ON BEHALF OF
THE CHEVIN HOUSING GROUP**



ARP GEOTECHNICAL LTD
CHARTERED CONSULTING ENGINEERS

DESK STUDY AND GEO-ENVIRONMENTAL REPORT

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THE CHEVIN HOUSING GROUP

MAY 2006

Report No: CHG/03	Name	Signature	Date
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1.0 EXECUTIVE SUMMARY

- 1.1 The Geological Map shows the site to be underlain by undifferentiated strata of the Middle Coal Measures of the Upper Carboniferous Period in the central and eastern section of the site. In the western section of the site, Dalton or Brierly Rock (a sandstone) is indicated to outcrop.
- 1.2 The site can be considered stable with regard to coal mining.
- 1.3 The Ordnance Survey Archive Plans shows the site remains undeveloped as agricultural land until the 1970's. The areas to the north and east, Areas B and C, still remain agricultural land, but Area A to the southeast was developed in with 'Reema' Council Housing Estate around 1970, which is still present today. A stream was shown in the land to the north.
- 1.4 Basic radon protection measures are required for properties constructed on the site.
- 1.5 The site is not at risk from river flooding.
- 1.6 A landfill has been identified 50m to the east of the site. It is recommended that gas-monitoring wells are installed along the eastern boundary to ascertain if there is any risk of landfill gas migration.
- 1.7 The Contamination Risk Assessment indicates that there are several potential source-pathway-receptor linkages if the site is redeveloped with residential properties.
- 1.8 The existence of the postulated contamination sources is not yet known and can only be assessed following a ground investigation.
- 1.9 Traditional unreinforced strip or trench fill foundations are anticipated to be appropriate for use on the site, depending on the natural strata. However, it is recommended within

the area of the previous stream that investigation is carried out to ascertain the ground conditions, before determination of the foundation solution.

- 1.10 A road formation on natural ground should be achieved. A CBR of 2% is probably applicable, subject to assessment following a ground investigation.
- 1.11 The above comments are subject to the findings of an intrusive ground investigation.

2.0 TERMS OF REFERENCE

- 2.1 The Chevin Housing Group are considering developing the site at Thurnscoe, Barnsley with residential properties. It was considered appropriate to implement a desk study to provide information to aid viability assessment and design of any subsequent development.
- 2.2 ARP Geotechnical Ltd were appointed by Nicol Thomas, acting on behalf of The Chevin Housing Group, to carry out the investigation, which involved a desk study assessment of the geological and coal mining aspects, Ordnance Survey archive plans search, environmental search, radon gas appraisal and indicative flood risk. A site walkover was also undertaken.
- 2.3 The report is intended to cover a wide scope of geotechnical issues, a Tier 1 Conceptual Site model, appraisal of contaminant source/pathway/receptor linkages and a Risk Assessment.
- 2.4 The report does not include an intrusive assessment, is limited to the data obtained and interpretation is given for guidance only.
- 2.5 The investigation was carried out in May 2006.
- 2.6 The report has been prepared for the sole use and reliance of the Appointee. The report shall not be relied upon or transferred to any other parties without the written agreement of ARP Geotechnical Ltd. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party.

3.0 SITE DESCRIPTION

- 3.1 The site, which is centred on Ordnance Survey Grid Reference SE458 062, is located near to Thurnscoe, Barnsley, and is a roughly square shaped piece of land extending to an area of approximately 19.5Ha.
- 3.2 A site Walkover Survey was undertaken, and this is discussed below together with observations from assessment of the available archive plans.
- 3.3 The site itself is split into 3 different areas, areas A, B and C (Site plan CHG03/S1.02 in Appendix A). Area A is in the southwestern section of the site and is, the time of the walkover, the 'Reema' Council Housing Estate consisting of a number of semi-detached houses with residential gardens. The land slopes generally in a southwesterly direction. The southern boundary is residential properties. Green public open space is located to west of the site. Area B is located to the east. To the northwest of Area A, there is further residential housing, whilst directly to the north is Area C, the boundary between the two areas being a dry ditch.
- 3.4 Area B to the east of the site is currently cropped agricultural land, which slopes gently to the northwest. The boundary between Area A and Area B is a mix of hedges and fencing from the back gardens of the residential properties. To the east of the site there is the railway line. The boundary between Area B and Area C to the north is a dry ditch.
- 3.5 Area C in the northern section of the site is currently cropped agricultural land. The land slopes in a predominantly southwesterly direction, although, there is a low section of the site running from the central northern area to the southwest, whilst, the land in the northwestern and eastern sections of the site slopes gently to the central area. To the south of this area, there is a dry ditch, which forms the boundaries between Areas A and B. At the time of the site walkover, there were isolated areas of water in the ditch, but this did not appear to be running. To the eastern side of this there is the railway, whilst, to the northern side there is further agricultural land. To the western section of the site

there are hedges and fences forming the boundary to back gardens of residential properties.

3.6 Overall, the entire site slopes in a predominantly southwesterly direction.

3.7 A site location plan is presented in Appendix A.

4.0 NATURAL ENVIRONMENT

General Geology

- 4.1 The site is located on the Geological Map of Great Britain 1:50,000 Series Sheet 87, Barnsley. The Solid and Drift Edition shows the site to be underlain by undifferentiated strata of the Middle Coal Measures of the Upper Carboniferous Period in the central and eastern section of the site. In the western section of the site, Dalton or Brierly Rock (sandstone) of the Middle Coal Measures of the Upper Carboniferous Period is present. There is no drift cover.
- 4.2 There are no faults indicated on, or close to the site.
- 4.3 The geological sequence means the site is likely to contain coal seams. Subsequently, a coal mining report has been obtained from the Coal Authority. The report is discussed further in Section 6.0 of this report.

Hydrogeology

- 4.4 The Environment Agency 1:100,000 scale Ground Water Vulnerability Map Sheet 12, Vale of York, shows the solid strata beneath the site to be classed and defined as a minor aquifer, defined as variable permeability rock, which seldom produce large quantities of water for abstraction, but which may be important both for local supplies and in supplying base flow to rivers.
- 4.5 Soils on the site are automatically classed as having a high leaching potential, due to the urban nature of the area. As the soils are likely to be granular above the sandstone, and from undifferentiated strata, a high leaching potential may be appropriate even if the site was not within an urban area. However, in the presence of cohesive subsoils, leachability could be assumed to be low.

- 4.6 Any mobile polluting agents on the site, therefore, have the potential to migrate the underlying minor aquifer.

Hydrology

- 4.7 There is a small watercourse indicated to cross the site from the northern central boundary to the southwest in the northern area of the site. However, at the time of the site walkover this appeared to have been incorporated into the fields. There was evidence of surface water run-off along the line of the stream.

5.0 ORDNANCE SURVEY ARCHIVE PLANS

- 5.1 Ordnance Survey Archive Plans were obtained as part of the Landmark Envirocheck Report. The plans are included in Appendix B, and are discussed below. A full list of the plans supplied is also included in Appendix B.
- 5.2 The first historical plan available from 1854 (1:10,560) shows the area to be agricultural land consisting of several fields. In the north of the site, there is a small area of woodland indicated, and in the eastern section of the site, a bridal road is shown travelling in a northerly to southerly direction. On the southern side of the site, a footpath is indicated to cross in an east to west direction. Joining the southeastern boundary, there is a farm called Low Grange, with a well showing just outside the southeastern boundary within the farm area. The surrounding land is predominantly agricultural with the village of Thurnscoe indicated 700m to the southeast of the site. Some sandstone quarries are indicated approximately 300m and 600m to the north.
- 5.3 The next available plans from 1892 (1:2,500) and 1894 (1:10,560) show the site to remain unchanged. The 1:2,500 scale map indicates a stream running from the central northern region to the midwestern side of the site passing Low Grange Farm. The North Eastern Railway Line is now shown and this forms the western boundary of the site, with the bridal road having been re-routed to crossover the railway line to gain access to the eastern side of the railway line.
- 5.4 The next plans from 1906 (1:2,500 and 1:10,560) show the site remains unchanged apart from the bridal road having changed direction and is now showing to travel in a easterly to westerly direction. To the east of the site over the railway line a further branch railway line has been constructed. To the south of the site approximately 400m, the Village of Thurnscoe East is now shown with a railway station present. In Thurnscoe East, the Hickleton Main Colliery and the brick works are shown.
- 5.5 The 1930 plan (1:2,500) shows the site to remain undeveloped. The wood is now named as Whin Wood. Immediately to the south of the site forming the southern boundary,

residential development has taken place with Thornley Crescent shown in an easterly to westerly direction fronted by semi-detached houses with residential gardens backing on to the boundary. Residential development has also taken place to the east of the site over the two railway lines.

- 5.6 The plan from 1938 (1:10,560) indicates no changes to the site. However, there is now shown to be the extensive residential development to the south and the east of the site in the towns of Thurnscoe and Thurnscoe East.
- 5.7 The next plans from 1956 (1:10,560) and 1961 (1:1,250) show the Whin Wood to no longer be present and appears to now be cropped agricultural land. A pond is shown just to the north of the site boundary leading to the stream that travels across the site. A land drain is also shown, placed in the central north of the site directly leading into the centre of the site to the stream. The field arrangement has also been altered reducing a number of fields but increasing the field sizes. Immediately to the south east of the site a Nursery development has taken place with a builders yard in the southeastern corner. Further residential development has also taken place to the west of the site. To the east of the site over the main railway line, the branch line is now showing as dismantled.
- 5.8 No changes are noted to the site until the 1970 plan (1:1,250) when the 'Reema' Housing Estate is shown in the southeastern section of site shown as area A on the site plan.
- 5.9 The final plan from 2004 (1:10,000) shows the site to have remained unchanged from 1970. Further residential development has taken place to the east and south of the site.
- 5.10 In summary, the site was originally agricultural land, and the north and eastern areas (Areas B & C) are still agricultural land today. No changes were noted to the site until 1970 when the 'Reema' Council Housing Estate was constructed (Area A) and this is still present today. A stream is shown to cross the site in a northeastern section of the site, although, at the time of the site walkover, the stream was not present and was now forming part of the fields. A footpath and bridal path is also shown to cross the site. There is not anticipated to be any contamination in the northern and eastern sections of

the site, which are still agricultural land. However, it is recommended investigations are carried out to confirm this. In the southwestern section of the site, following removal of the estate, there will be a legacy of buried foundations and structures from this development, and the presence of contaminated fill, possible beneath hardstanding areas, cannot be discounted.

6.0 COAL MINING

- 6.1 A coal mining report was obtained from The Coal Authority. A copy of the report is included in Appendix C and a summary is given below.
- 6.2 The site is within the zone of influence on the surface from workings in eight seams of coal at depths between 130m to 800m, with the last date of working being 1981. Ground movement from the above mentioned past coal workings should by now have ceased.
- 6.3 The site is unaffected by any present or future proposed and ground mining. However, The Coal Authority refers to reserves of coal existing in the locality, which could be worked at some time in the future, subject to visibility, licences and planning consents. Giving the effect of abandonment of the South Yorkshire Coalfield, any future workings are considered highly unlikely.
- 6.4 There are no known mine entries on or within 20m of the site.
- 6.5 The site is unaffected by any past, present or future open cast coal mining.
- 6.6 In the light of the above, the site is considered stable with regard to coal mining.

7.0 ENVIROCHECK REPORT

- 7.1 An Envirocheck Report was obtained from the Landmark Information Group, containing information on numerous environmental aspects. A copy of the report is included in Appendix D and a summary of the pertinent findings, with additional comments, is given below.

Radon Gas Appraisal

- 7.2 The Health Protection Agency indicates that between 1-3% of homes are above the action level required for radon protection measures.
- 7.3 Information from the British Geological Survey indicates that no radon protection measures are necessary on the construction of new dwellings or extensions.
- 7.4 In light of the above, despite the BGS Report results, it is recommended that basic radon protection is provided to the proposed properties, to avoid potential problems with conveyancing searches.

Environment and Hydrological

- 7.5 Landmark Envirocheck Report was assessed with regard to several environmental issues. The findings are given below:-
- 1) There are no IPC authorisations within 500m of the site.
 - 2) There is one closed landfill located 50m off the eastern boundary of the site. It appears to be a section of the closed branch railway line that has been infilled.
 - 3) The site is not at risk from river flooding.
 - 4) The site is not within a ground water source protection zone.

- 7.6 In light of the above information, it is recommended that gas wells are installed along the eastern boundary of the site to ascertain any landfill gas migration from the landfill identified 50m to the east in the old railway cutting.

8.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT

Contaminated Land Statutory Regime

8.1 Part IIA of the Environmental Protection Act (EPA) 1990 became effective from 1st April 2000. The Regime was introduced by the Contaminated Land (England) Regulations 2000 (SI 2000, No. 227) along with the associated DEFRA Circular 02/2000.

8.2 Section 78A(2) of the Act defines 'Contaminated land' is any land
in such a condition, by reason of substances in, on or under that land that –

- (a) significant harm is being caused or there is a significant possibility of such harm being caused; or
- (b) pollution of controlled waters is being, or likely to be caused;

From S78A(4) 'Harm' means harm to the health of living organisms or other interference with the ecological systems of which they form part and, in the case of man, includes harm to his property.

Regulation 3(a), of the Contaminated Land Regulations, defines controlled waters which are, or intended to be, used for the supply of drinking water for human consumption are being affected by the land and, as a result, require a treatment process or a change in such a process to be applied to those waters before use, so has to be regarded as wholesome within the meaning of Part III of the Water Industry Act 1991 (water supply).

Remediation

8.3 From section 78(7) 'Remediation' means –

- (a) the doing of anything for the purpose of assessing the condition of –
 - (i) the contaminated land in question;

- (ii) any controlled waters affected by that land; or
 - (iii) any land adjoining or adjacent to that land;
 - (b) the doing of any works, the carrying out of any operations or the taking of any steps in relation to any such land or waters for the purpose -
 - (i) of preventing or minimising, or remedying or mitigating the effects of, any significant harm, or any pollution of controlled waters, by reason of which the contaminated land is such land; or
 - (ii) of restoring the land or waters to their former state; or
 - (c) the making of subsequent inspections from time to time for the purpose of keeping under review the condition of the land or waters;
- and cognate expressions shall be construed accordingly.

8.4 The objectives of the regime are to ensure that risks associated with contaminated land are reduced to an acceptable level, having regard to the costs of doing so. The costs should be proportionate, manageable and economically sustainable.

8.5 In assessing risk, it is necessary to consider the probability, or frequency, of occurrence of the hazard and the magnitude/seriousness of the consequences. Consequently, for land to be classified as contaminated, it must have, or be very likely to have, a detrimental effect on humans or the environment before it can be classified as contaminated land.

8.6 In establishing risk, the concept of the pollutant source/pathway/receptor linkage model, based on current and proposed site use, is to be considered. Therefore for a site to be deemed contaminated under the Regime, all three linkages must be in place i.e. the site must not only contain harmful substances, but the substances must have a pathway by which to leak out and cause significant harm to a receptor.

8.7 In September 2004, the Environment Agency published the Contaminated Land Report (CLR) 11, "Model Procedures for the Management of Land Contamination". The document is intended to provide the technical framework for structured decision making about land contamination, and is intended to assist all those involved in "managing" the land, in particular landowners, developers, financial service providers, planners and

regulators. As the document currently provides the framework for best practice, the general principles are, therefore, followed in conducting the assessment below.

8.8 Prior to commencement of site investigation works, a preliminary risk assessment was undertaken. This was not formally presented or issued, but was used to inform the design of the subsequent investigation. At this stage, it was known that the site is proposed for residential development.

8.9 The matrix below gives a detailed breakdown of the potential and operational source-pathway-receptor relationships identified at this stage. Details in italics are those features, which the conceptual model indicate are not applicable, or linkages known to be inoperative.

Potential Source – Pathway – Receptor Matrix – Finished Site

Potential Contamination Sources	Receptors	Pathways
Unknown fill - landfill gases (Areas C & B) Unknown fill – non volatiles Area A Unknown fill – volatile hydrocarbons Area A	Humans:- - Future site users - Adjacent residents and general public – commercial only	- Soil ingestion - Fruit and vegetable intake - Dermal contact - Dust inhalation - Vapour inhalation - Ingestion of contaminated water supply
	Controlled waters:- - Groundwater (Minor Aquifer) - Surface water – on site stream and ditches - Water in supply pipes <i>Abstractions</i>	- Surface water run-off - Surface water run-off - Downward solution migration - Lateral solution migration - Diffusion of hydrocarbons into public water supply
	Vegetation:- - Landscape areas - Private gardens	Root uptake
	Construction materials:- <i>Bricks and blocks</i> <i>Concrete and buried mortar</i> <i>Structural steelwork</i> <i>Piles</i> <i>Buried services</i>	<i>Direct contact – will be addressed by amending material specification, if necessary</i>

Further Investigation

8.10 The Desk Study and Risk Assessment has indicated there are possible source-pathway-receptor linkages that will occur if the site is redeveloped with residential properties with gardens.

- 8.11 The existence of the postulated contamination sources is not yet known, and it is recommended that a ground investigation is implemented with testing for the potential contamination concerned, to determine the possibility. If the contamination sources are shown to be present, further investigation involving sampling in a grid system, along with any targeted sampling can be implemented. This will enable refinement of the conceptual model and full assessment of the risk, enabling any remedial strategy to be determined.

Potential Remedial Strategy

- 8.12 This is highly dependent on the findings of any future intrusive investigations. However, methods of blocking pathways are possible. Removal of the source from site (e.g. to landfill) is usually now the least desirable option given recent changes in the UK landfill regime.
- 8.13 Pathways to human receptors may be broken by provision of an uncontaminated soil cover blanket or hard layer. However, ingestion of contaminated water supply and vapour inhalation may still apply. The former may be blocked by the use of supply pipes with chemical protection, or isolation away from contaminated areas. The latter can be blocked by the use of low permeability soils, and/or provision of under floor venting, possibly with appropriate vapour membrane.
- 8.14 Pathways to construction materials are most effectively dealt with by changing the specification of construction materials, if appropriate. For instance, the provision of sulphate and acid resistant cementitious material will protect against the presence of sulphate in the ground.

9.0 COMMENT AND CONCLUSION

General

- 9.1 The geological map shows the site to be underlain by Dalton or Brierly Rock (a sandstone) in the western section, with undifferentiated strata of the Middle Coal Measures covering the rest of the site.
- 9.2 The coal report indicates the site is stable with regard to coal mining.
- 9.3 The Ordnance Survey archive plans show that the site was agricultural land up until 1970. The north and east of the site has remained agricultural land to the present day, with the southeastern section having been developed with 'Reema' Council Housing Estate. A railway cutting approximately 50m to the eastern side of the site has been landfilled. There has been no previous contaminating use, but imported fill may have been used in the construction of the housing estate. Following removal of the estate, there will be a legacy of foundations, buried services and below ground structures affecting the proposed development.

Environmental Considerations

- 9.4 The radon assessment has indicated that basic protection measures will be required for development on the site. This will generally involve a radon impermeable membrane below a solid floor and extending through the cavity wall.
- 9.5 The landfill search indicated that a landfill is present 50m to the east of the site located in a disused railway cutting. It is recommended that gas-monitoring wells are installed to assess the potential for landfill gas migration.
- 9.6 The site is not at risk from river flooding.

- 9.7 The postulated conceptual site model is for residential development with private gardens, on low permeability cohesive subsoils, with possible contaminated made ground on the surface of the site due to the previous residential nature of the site. The degree of contamination can only be determined by laboratory testing. The surrounding area is predominantly residential and is assumed to provide no additional hazard.
- 9.8 The desk study and hazard assessment has indicated there is a possibility of multiple source-pathway-receptor linkages, which will occur if the site is redeveloped with residential properties.
- 9.9 The existence of the postulated contamination source is not yet known, and it is recommended that a ground investigation is implemented, with testing for potential contaminants. If contamination sources are shown to be present, further investigation involving sampling on a grid system, along with any targeted sampling, can then be implemented. This will enable refinement of the conceptual model and a full assessment of risk, enabling any remedial strategy to be determined.
- 9.10 Typical techniques for blocking the source-pathway-receptor linkages on the site are discussed in section 8.0. Depending on the findings of a ground investigation, these may include removal of any 'hot spots', provision of an uncontaminated cover blanket to any contamination in the 'soft areas', and placement of contamination below any hard surfaces. Depending on concentrations, chemical protection of buried water supply pipes, and possibly vented floor voids may be required, if hydrocarbons are found to be present.

Foundations

- 9.11 The cohesive subsoil thought to underlie the site should be able to receive foundation loads using the traditional strip or trench fill foundations, subject to confirmation by an intrusive investigation. Within Area C, the agricultural land to the north, the stream shown on Ordnance Survey Plans was no longer present and had been incorporated in the field of agricultural land. In this area, it is possible there could be silty sand deposit from

the stream and therefore requires investigation as to its suitability for accepting foundation loads.

- 9.12 Foundations will need to be taken below any existing made ground to bear on the natural strata.

Excavations

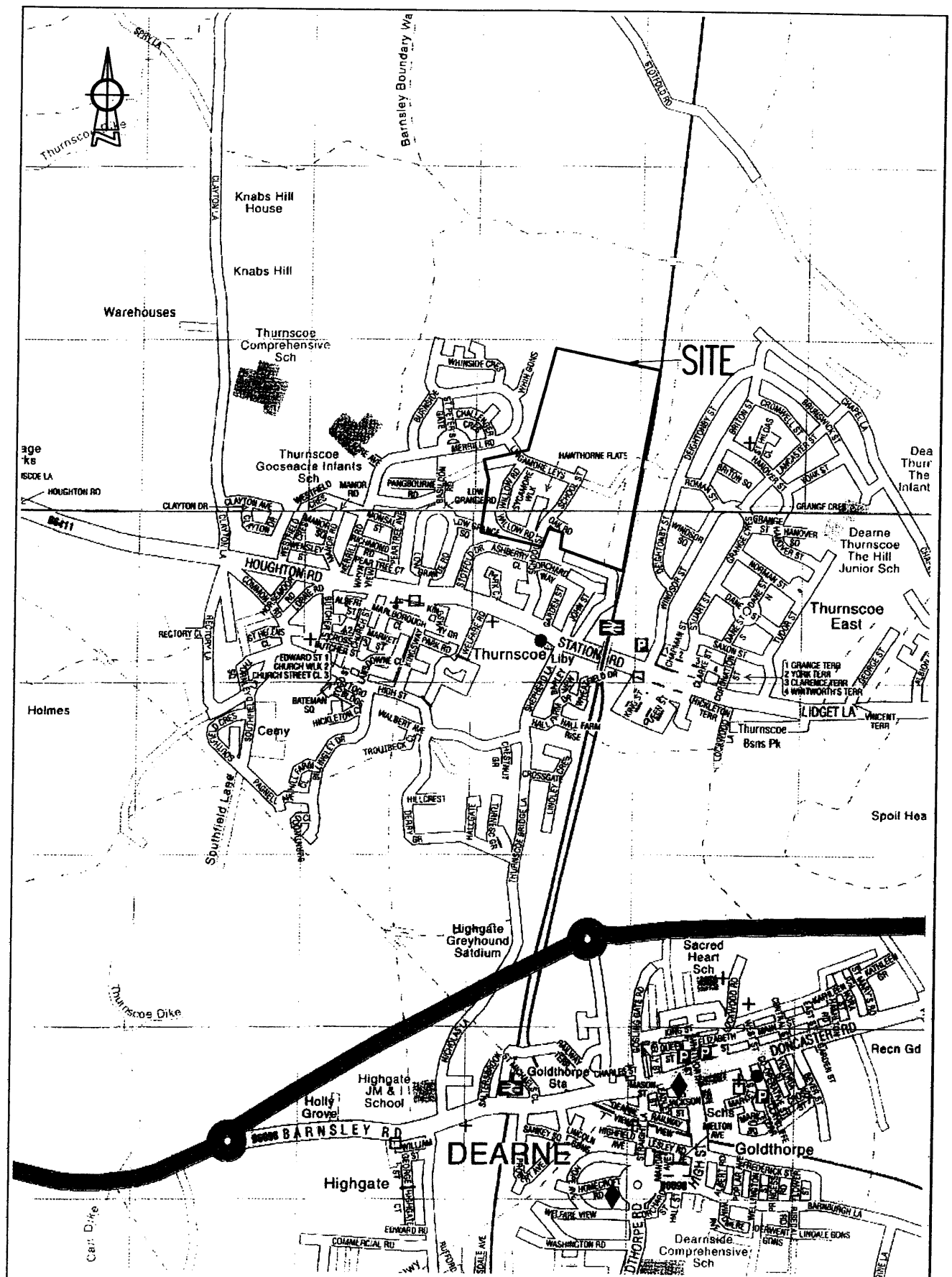
- 9.13 The natural cohesive subsoils should remain stable requiring minimum strategy report. However, excavations into any made ground may be subject to instability.
- 9.14 The ground water regime can only be confirmed by an intrusive investigation. However, due to the previous stream through the site in the northern area on the archive plans seepages from the natural strata may be encountered. Any seepages encountered should be readily controlled by intermittent pumping from an artificial sump area.
- 9.15 Excavations into the natural strata will probably be readily achieved using conventional hydraulic plant. However, a breaker may be required for any buried foundations, structures or obstructions in the made ground.

Carriageway Construction

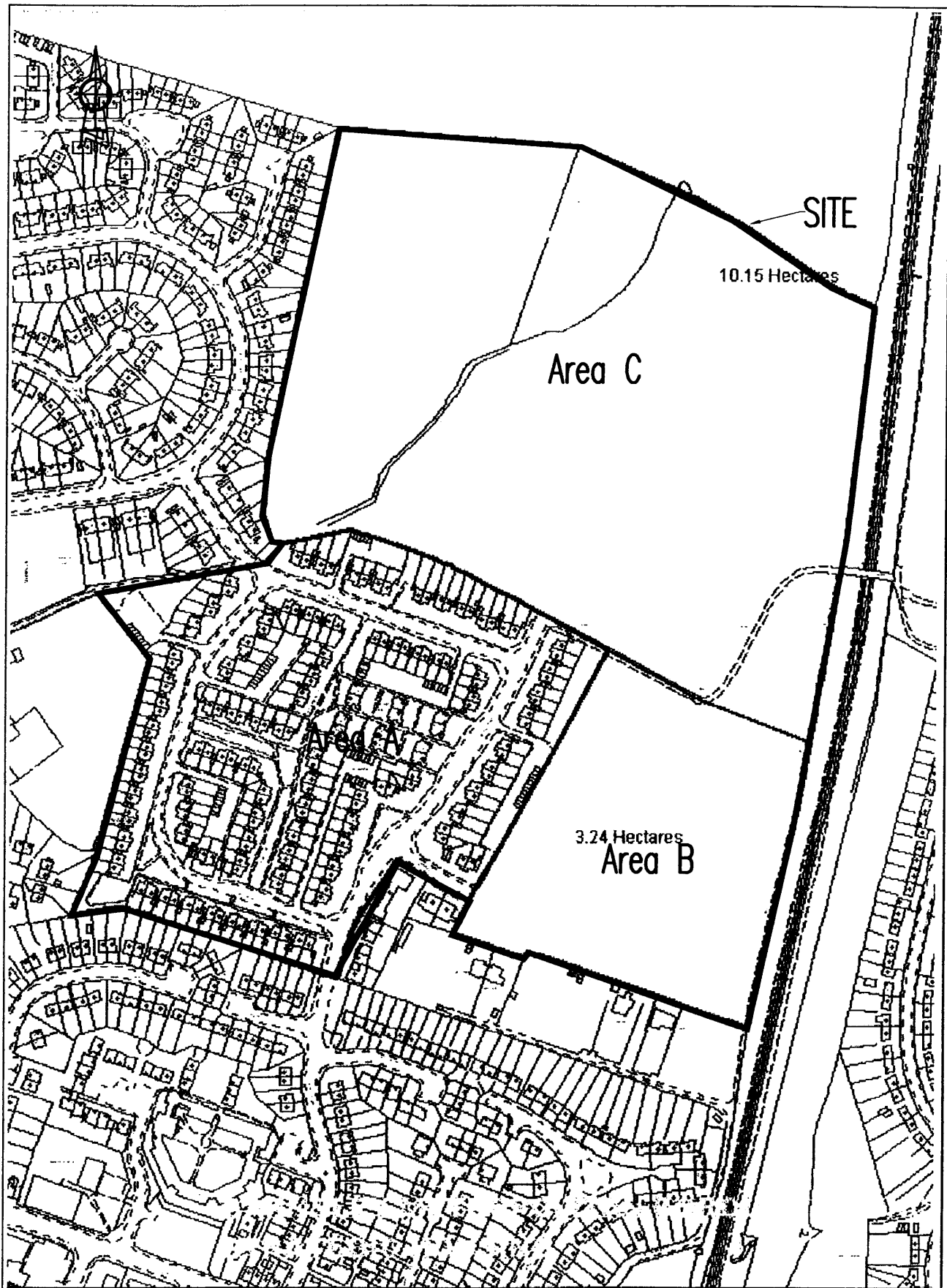
- 9.16 For any areas of adoptable road pavement, design California Bearing Ratio (CBR) will depend upon the exact nature of the formation. For the cohesive strata postulated to be present on the site, a CBR value of 2% may be applicable. Formation on any existing made ground materials will not be acceptable and the use of granular capping material may be required under pavement construction subject to levels.

APPENDIX A

SITE LOCATION PLAN



Title SITE LOCATION PLAN	 ARP GEOTECHNICAL CHARTERED CONSULTING ENGINEERS Northwest House • 5/6 Northwest Business Park Servis Hill • Leeds LS6 2QH Telephone : 0113 245 8498 • Fax : 0113 244 3864 E-Mail : leeds@arpgeotechnical.co.uk		Scale NTS	Drawn LAM
Project/ Client THURNSCOE, BARNESLEY CHEVIN HOUSING GROUP	Date MAY 06	Chk. 	Drg. No. CHG/03/SI.01	Rev. /



Title SITE PLAN	 ARP GEOTECHNICAL CHARTERED CONSULTING ENGINEERS Northwest House • 5/6 Northwest Business Park Servio Hill • Leeds LS6 2QH Telephone : 0113 245 8488 • Fax : 0113 244 3864 E-Mail : leeds@arpgeotechnical.co.uk			Scale NTS	Drawn LAM
Project/ Client THURNSCOE, BARNLEY CHEVIN HOUSING GROUP				Date MAY 06	Chk. Drg. No. CHG/03/SI.02
					Rev. /

A P P E N D I X B

ORDNANCE SURVEY ARCHIVE PLANS

Envirocheck[®] Report:

Historical Map List

Report on:

Land At Thurnsoce
Rotherham
S63 0AQ

National Grid Reference :

445800, 406190

Prepared For :

Arp Geotechnical Ltd
Northwest House
5-6 Northwest Business Park
Leeds
LS6 2QH

Your Reference

Mr J Race, CHG/03

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Ordnance Survey County Series Published 1851 to 1854

(1)

County	Mapsheet	Scale	Year
Yorkshire	275_00	1:10,560	1854
Yorkshire	276_00	1:10,560	1851

Ordnance Survey County Series Published 1893 to 1894

(2)

County	Mapsheet	Scale	Year
Yorkshire	275_SE	1:10,560	1894
Yorkshire	276_NW	1:10,560	1893
Yorkshire	276_SW	1:10,560	1893

Ordnance Survey County Series Published 1906 to 1907

(3)

County	Mapsheet	Scale	Year
Yorkshire	275_NE	1:10,560	1907
Yorkshire	275_SE	1:10,560	1906
Yorkshire	276_NW	1:10,560	1907
Yorkshire	276_SW	1:10,560	1907

Ordnance Survey County Series Published 1938 to 1948

(4)

County	Mapsheet	Scale	Year
Yorkshire	275_NE	1:10,560	1948
Yorkshire	275_SE	1:10,560	1938
Yorkshire	276_NW	1:10,560	1948
Yorkshire	276_SW	1:10,560	1948

Ordnance Survey Plan Published 1955 to 1956

(1)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE40NE	1:10,560	1956
Ordnance Survey Plan	SE40NW	1:10,560	1955
Ordnance Survey Plan	SE40SE	1:10,560	1956
Ordnance Survey Plan	SE40SW	1:10,560	1956

Ordnance Survey Plan Published 1966 to 1967

(2)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE40NE	1:10,560	1966
Ordnance Survey Plan	SE40NW	1:10,560	1967
Ordnance Survey Plan	SE40SE	1:10,560	1966
Ordnance Survey Plan	SE40SW	1:10,560	1967

Ordnance Survey Plan Published 1976 to 1983

(1)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE40NE	1:10,000	1983
Ordnance Survey Plan	SE40NW	1:10,000	1983
Ordnance Survey Plan	SE40SE	1:10,000	1976
Ordnance Survey Plan	SE40SW	1:10,000	1980

Ordnance Survey Plan Published 1988 to 1991

(2)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE40NE	1:10,000	1991
Ordnance Survey Plan	SE40NW	1:10,000	1989
Ordnance Survey Plan	SE40SE	1:10,000	1988
Ordnance Survey Plan	SE40SW	1:10,000	1989

10K Raster Mapping Published 2004**(1)**

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE40NE	1:10,000	2004
Ordnance Survey Plan	SE40NW	1:10,000	2004
Ordnance Survey Plan	SE40SE	1:10,000	2004
Ordnance Survey Plan	SE40SW	1:10,000	2004

Currently we do not have agreement with Ordnance Survey to provide Large Scale National Grid Data from 1996 onwards.

Envirocheck[®] Report:

Historical Map List

Report on:

Land At Thurnsoce
Rotherham
S63 0AQ

National Grid Reference :

445800, 406150

Prepared For :

Arp Geotechnical Ltd
Northwest House
5-6 Northwest Business Park
Leeds
LS6 2QH

Your Reference

Mr J Race, CHG/03

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Ordnance Survey County Series Published 1892

(1)

County	Mapsheet	Scale	Year
Yorkshire	275_08	1:2,500	1892
Yorkshire	275_12	1:2,500	1892

Ordnance Survey County Series Published 1906

(2)

County	Mapsheet	Scale	Year
Yorkshire	275_08	1:2,500	1906
Yorkshire	275_12	1:2,500	1906

Ordnance Survey County Series Published 1930

(3)

County	Mapsheet	Scale	Year
Yorkshire	275_08	1:2,500	1930
Yorkshire	275_12	1:2,500	1930

Ordnance Survey Plan Published 1962

(1)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE4505	1:2,500	1962
Ordnance Survey Plan	SE4506	1:2,500	1962
Ordnance Survey Plan	SE4605	1:2,500	1962
Ordnance Survey Plan	SE4606	1:2,500	1962

Ordnance Survey Plan Published 1961 to 1962

(1)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE4505NE	1:1,250	1962
Ordnance Survey Plan	SE4505NW	1:1,250	1962
Ordnance Survey Plan	SE4506SE	1:1,250	1961
Ordnance Survey Plan	SE4506SW	1:1,250	1961
Ordnance Survey Plan	SE4605NW	1:1,250	1962
Ordnance Survey Plan	SE4606SW	1:1,250	1961

Ordnance Survey Plan Published 1970 to 1973

(2)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE4505NE	1:1,250	1970
Ordnance Survey Plan	SE4505NW	1:1,250	1973
Ordnance Survey Plan	SE4506SE	1:1,250	1970

Additional SIMs Published 1961 to 1988

(1)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE4505NE	1:1,250	1988
Ordnance Survey Plan	SE4505NW	1:1,250	1978
Ordnance Survey Plan	SE4506SW	1:1,250	1961
Ordnance Survey Plan	SE4605NW	1:1,250	1962
Ordnance Survey Plan	SE4606SW	1:1,250	1961

Additional SIMs Published 1982 to 1989

(2)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE4505NW	1:1,250	1982
Ordnance Survey Plan	SE4506SW	1:1,250	1989
Ordnance Survey Plan	SE4605NW	1:1,250	1989
Ordnance Survey Plan	SE4606SW	1:1,250	1989

Large-Scale National Grid Data Published 1993

(1)

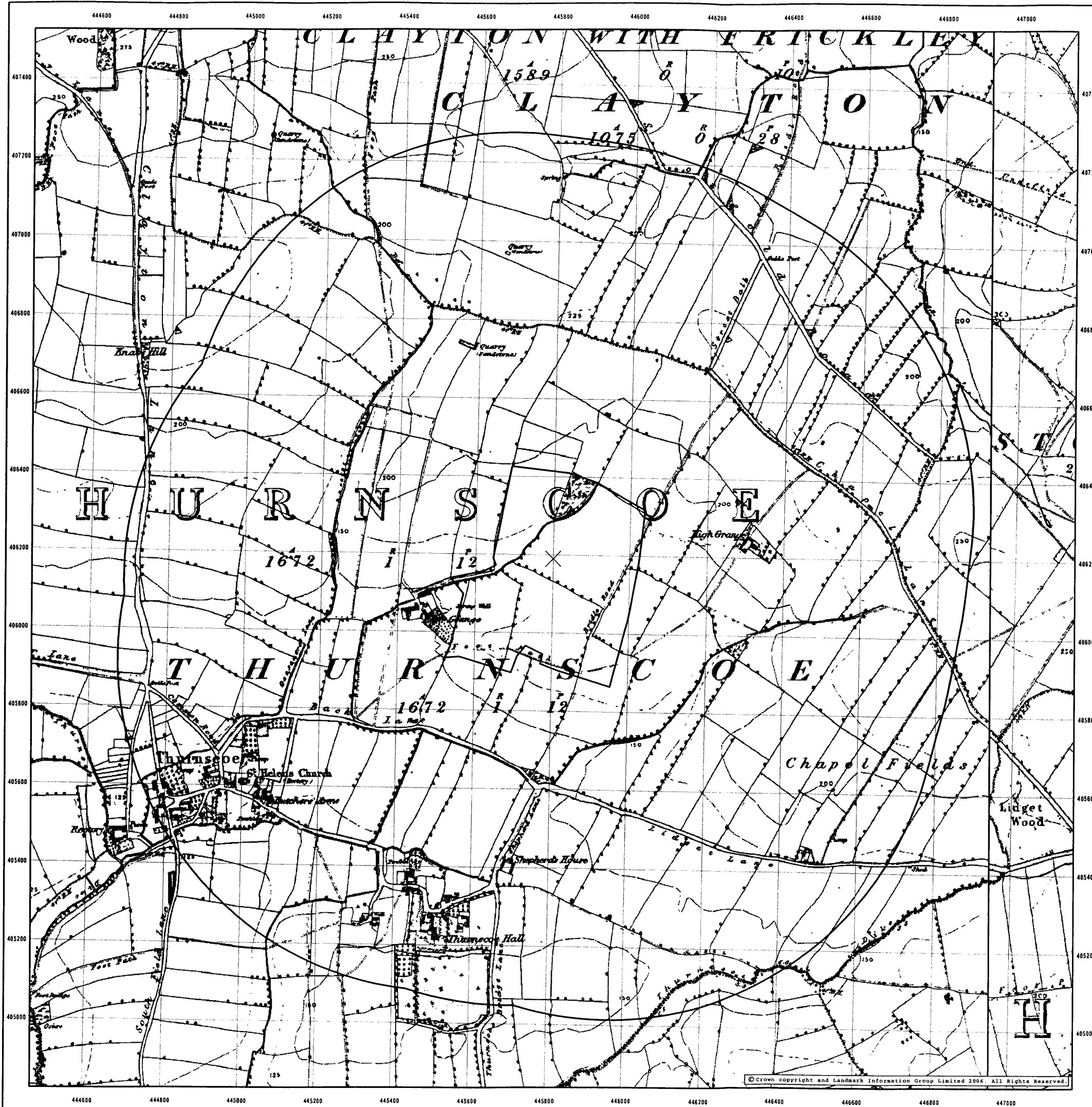
National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE4505NE	1:1,250	1993
Ordnance Survey Plan	SE4505NW	1:1,250	1993
Ordnance Survey Plan	SE4506SE	1:1,250	1993
Ordnance Survey Plan	SE4506SW	1:1,250	1993
Ordnance Survey Plan	SE4605NW	1:1,250	1993
Ordnance Survey Plan	SE4606SW	1:1,250	1993

Large-Scale National Grid Data Published 1993 to 1994

(2)

National Grid Series	Mapsheet	Scale	Year
Ordnance Survey Plan	SE4505NE	1:1,250	1993
Ordnance Survey Plan	SE4606SW	1:1,250	1994

Currently we do not have agreement with Ordnance Survey to provide Large Scale National Grid Data from 1996 onwards.





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CLIENT DETAILS Envirocheck Order No. **QC19607481_2_2**
(03 May 2006 16:35)

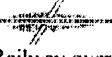
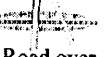
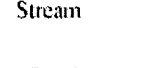
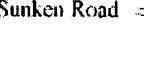
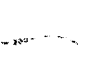
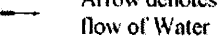
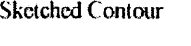
Customer Ref: Mr J Race, CHG/03
ARP Geotechnical Ltd
Northwest House 5-6 Northwest Business Park
Leeds
LS6 2QH

SITE DETAILS Grid Reference **445800 406190**

Land at Thurnscoe

Rotherham
S63 0AQ

Historical Map Legend

 Quarry	 Shingle	 Railway over Road	 Road over Railway
 Gravel Pit	 Sand Pit	 Level Crossing	 Railway over River
 Other Pits		 Road over Stream	 Road over Stream
 Rough Pasture	 Furze	 Road over River or Canal	 Road over Stream
 Marsh	 Reeds	 Sunken Road	 Sunken Road
 Osiers	 Instrumental Contour	 Raised Road	 Raised Road
 Arrow denotes flow of Water	 Sketched Contour		

Ordnance Survey County Series 1

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 on the right 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.

YORKSHIRE
Published 1851 to 1854
Source map scale - 1:10,560

1854

1851

Date(s) of Publication 1 of 9

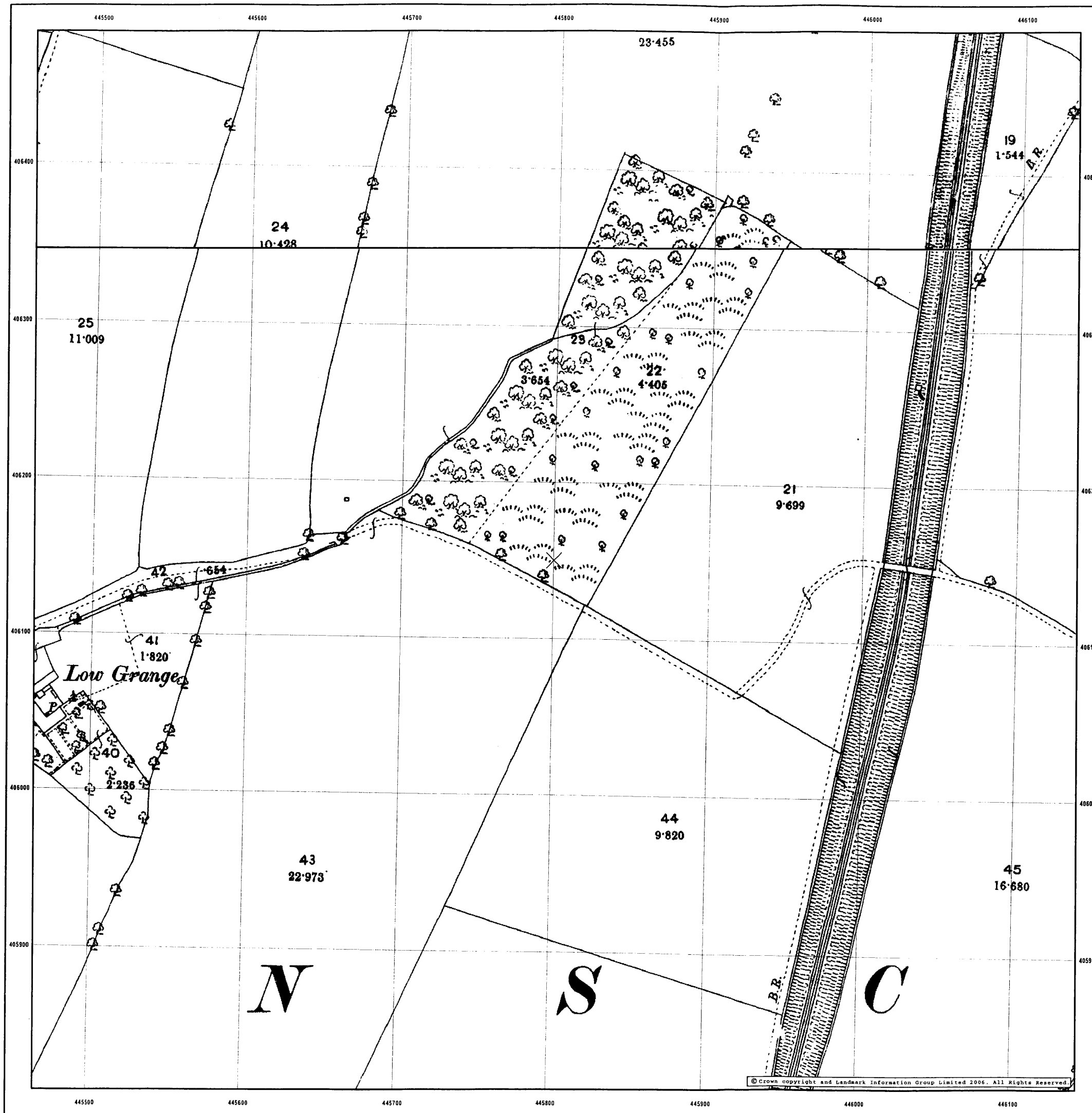


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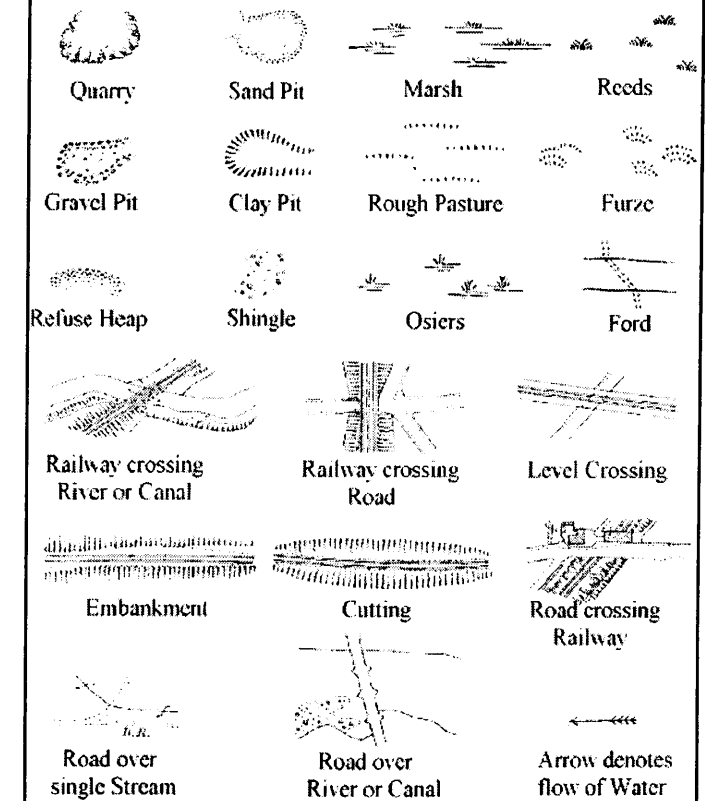
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SITE DETAILS Grid Reference **445800 406150**

Land at Thurnsoce

Rotherham
S63 0AQ

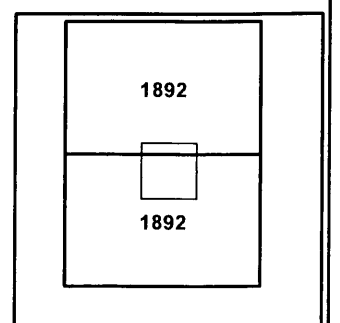
Historical Map Legend



Ordnance Survey County Series

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 1895 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given on the right is often some years later than the surveyed date. Before 1931, 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.

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



Date(s) of Publication 1 of 10



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(03-May-2006 16:39)

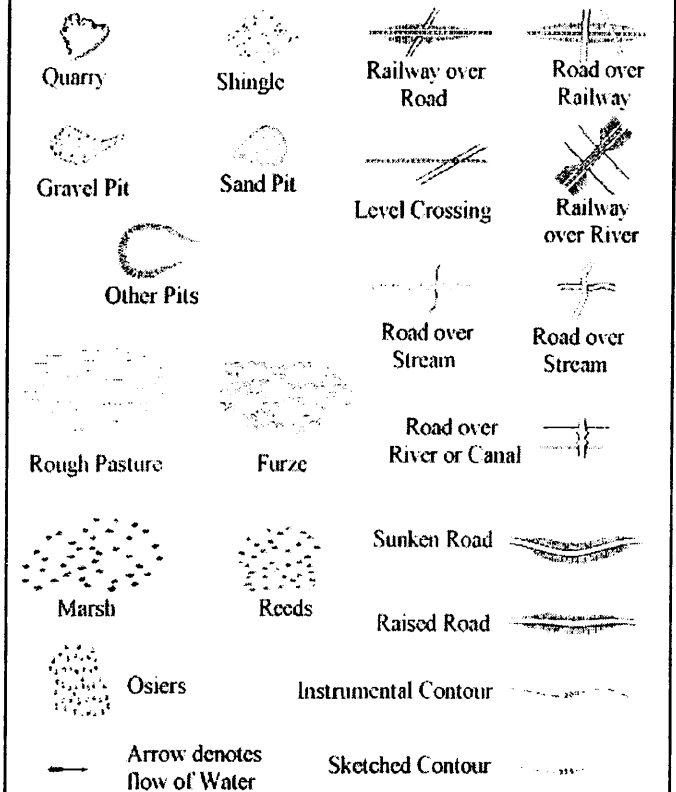
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Northwest House 5-6 Northwest Business Park
Leeds
LS6 2QH

SITE DETAILS Grid Reference **445800 406190**

Land at Thurnscoe

Rotherham
S63 0AQ

Historical Map Legend

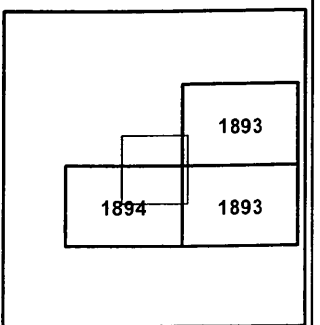


Ordnance Survey County Series

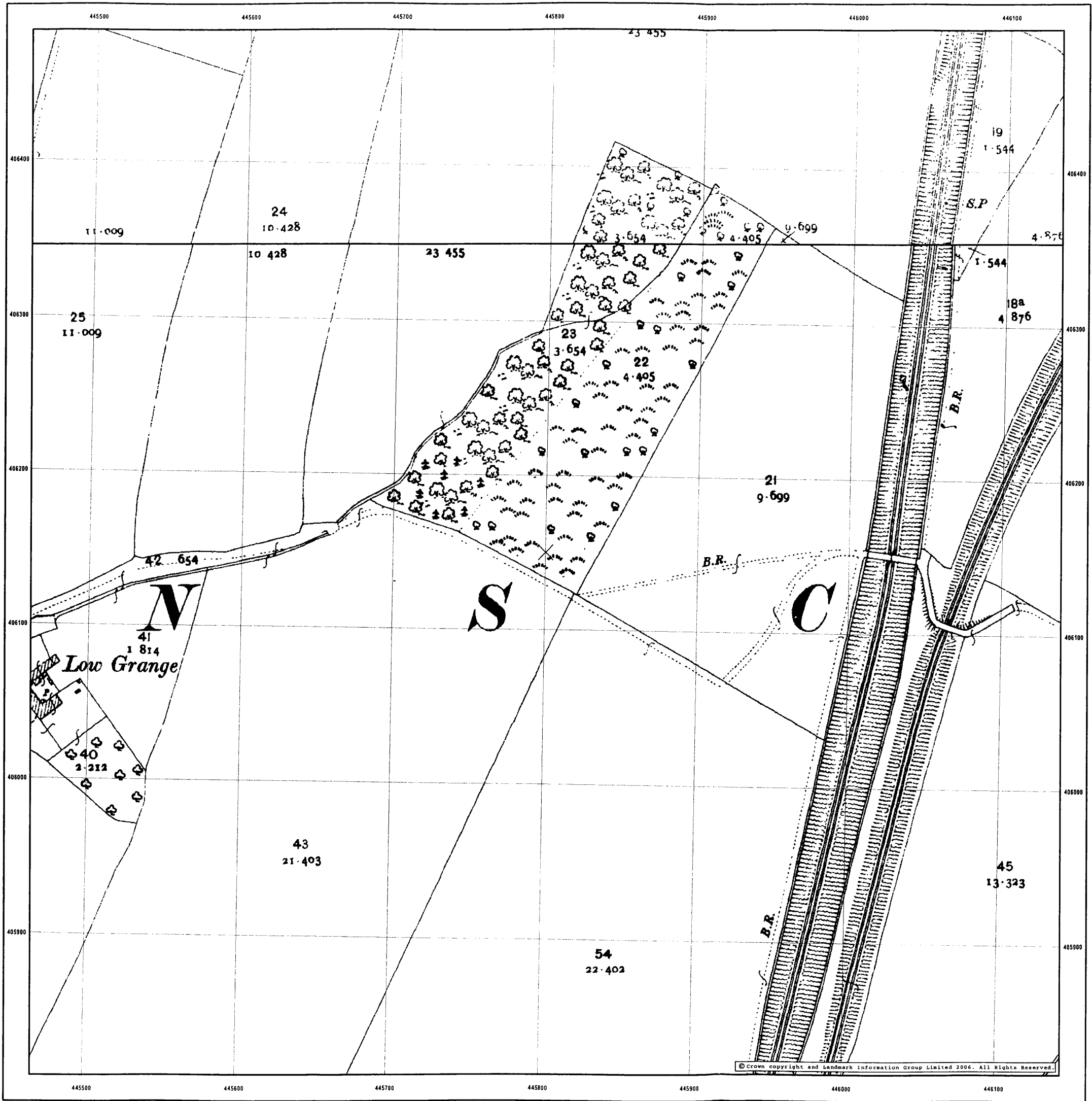
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given on the right therefore is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

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



Date(s) of Publication 2 of 9



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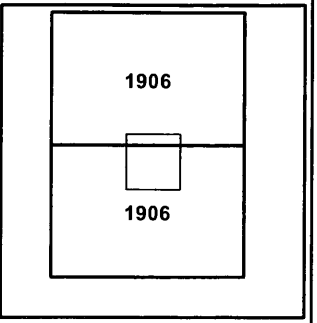
SITE DETAILS Grid Reference 445800 406150
Land at Thurnsoce

Rotherham
S63 0AQ

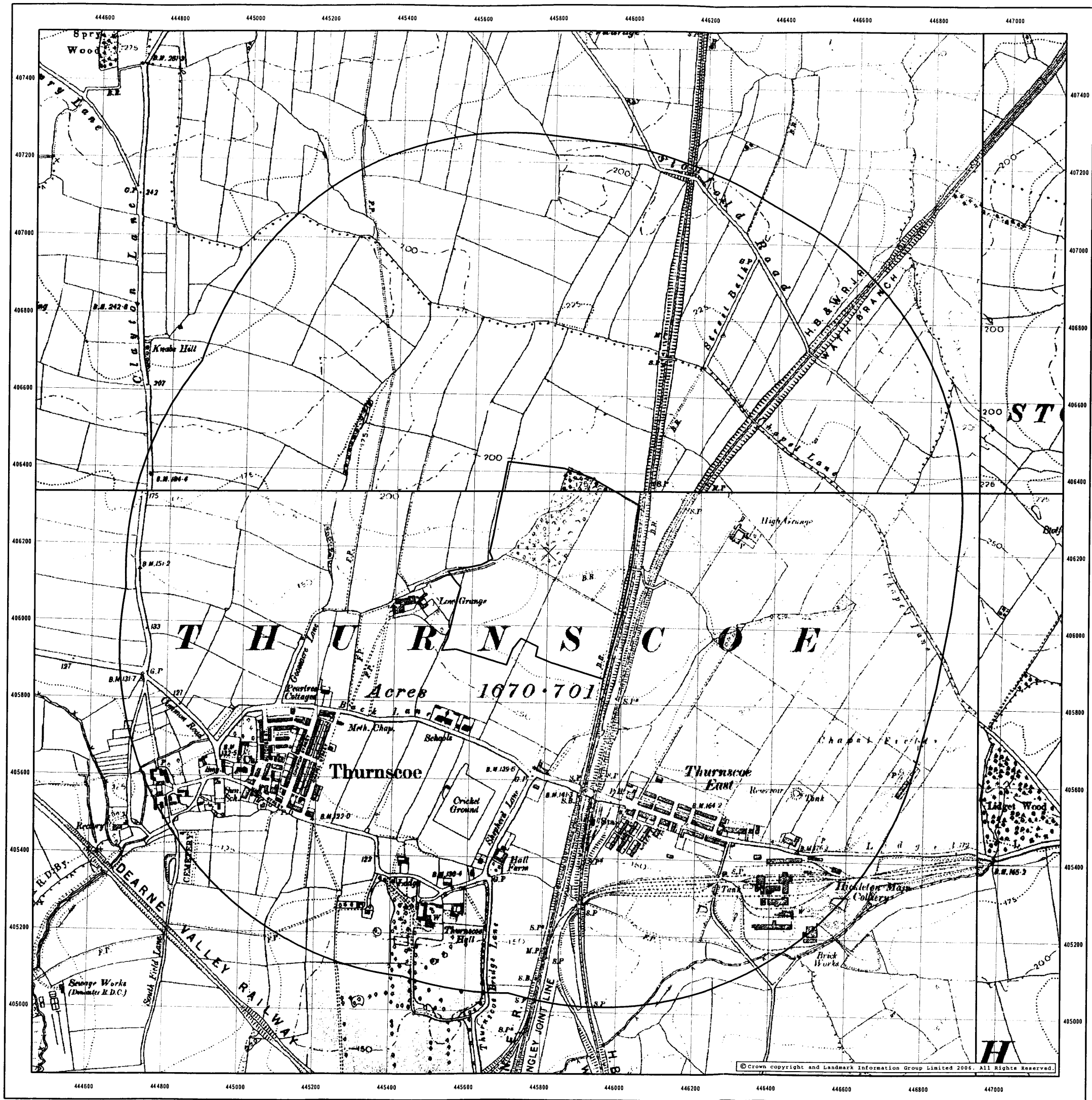
Historical Map Legend			
Quarry	Sand Pit	Marsh	Reeds
Gravel Pit	Clay Pit	Rough Pasture	Furze
Refuse Heap	Shingle	Osiers	Ford
Railway crossing River or Canal	Railway crossing Road	Level Crossing	
Embankment	Cutting	Road crossing Railway	
Road over single Stream	Road over River or Canal	Arrow denotes flow of Water	

Ordnance Survey County Series 2
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 on the right 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.

YORKSHIRE
Published 1906
Source map scale - 1:2,500



Date(s) of Publication 2 of 10



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Leeds
LS6 2QH

SITE DETAILS Grid Reference **445800 406190**

Land at Thurnscoe

Rotherham
S63 0AQ

Historical Map Legend

Quarry	Shingle	Railway over Road	Road over Railway
Gravel Pit	Sand Pit	Level Crossing	Railway over River
Other Pits		Road over Stream	Road over Stream
Rough Pasture	Furze	Road over River or Canal	
Marsh	Reeds	Sunken Road	
Osiers	Instrumental Contour	Raised Road	
Arrow denotes flow of Water	Sketched Contour		

Ordnance Survey County Series 3

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 on the right 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 1978, 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.

YORKSHIRE
Published 1906 to 1907
Source map scale - 1:10,560

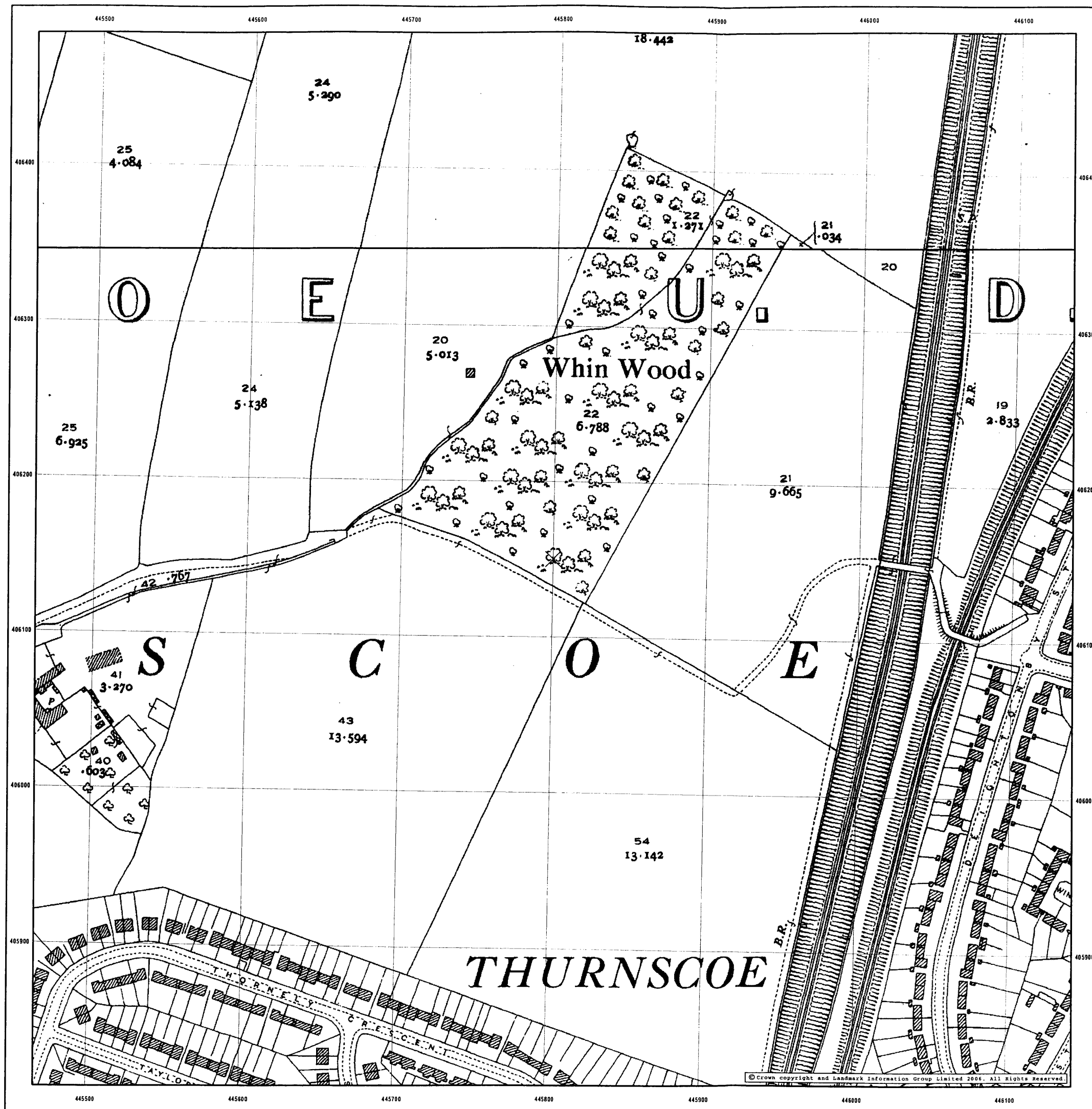
1907	1907
1906	1907

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Leeds
LS6 2QH

SITE DETAILS Grid Reference 445800 406150
Land at Thurnsoe

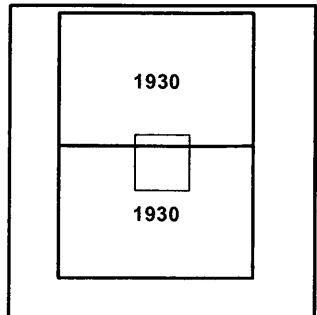
Rotherham
S63 0AQ

Historical Map Legend

Quarry	Sand Pit	Marsh	Reeds
Gravel Pit	Clay Pit	Rough Pasture	Furze
Refuse Heap	Shingle	Osiers	Ford
Railway crossing River or Canal	Railway crossing Road	Level Crossing	
Embankment	Cutting	Road crossing Railway	
Road over single Stream	Road over River or Canal	Arrow denotes flow of Water	

Ordnance Survey County Series 3
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 on the right 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.

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



Date(s) of Publication 3 of 10



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SITE DETAILS Grid Reference **445800 406190**
Land at Thurnscoe

Rotherham
S63 0AQ

Historical Map Legend

Quarry	Shingle	Railway over Road	Road over Railway
Gravel Pit	Sand Pit	Level Crossing	Railway over River
Other Pits		Road over Stream	Road over Stream
Rough Pasture	Furze	Road over River or Canal	Road over River or Canal
Marsh	Reeds	Sunken Road	Sunken Road
Osiers	Instrumental Contour	Raised Road	Raised Road
Arrow denotes flow of Water	Sketched Contour		

Ordnance Survey County Series 4
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 on the right 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.

YORKSHIRE
Published 1938 to 1948
Source map scale - 1:10,560

1948	1948
1938	1948

Date(s) of Publication 4 of 9

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LS6 2QH

SITE DETAILS Grid Reference **445800 406190**

Land at Thurnscoe

Rotherham
S63 0AQ

Historical Map Legend

Chalk Pit, Clay Pit, or Quarry	Non-coniferous Trees	Bracken
Gravel Pit	Coniferous Trees	Heath
Sand Pit	Scrub	Rough Grassland
Disused Pit or Quarry	Lake, Loch or Pond	Reeds
Refuse or Slag Heap	Pylon	Saltings
	Electricity Transmission Line	Marsh
Direction of Flow of Water	Shingle	
Cutting	Sand	
Road Under	Road Over	Level Crossing
Foot Bridge	Standard Gauge Multiple Track	Standard Gauge Single Track
	Siding, Tramway or Mineral Line	Narrow Gauge

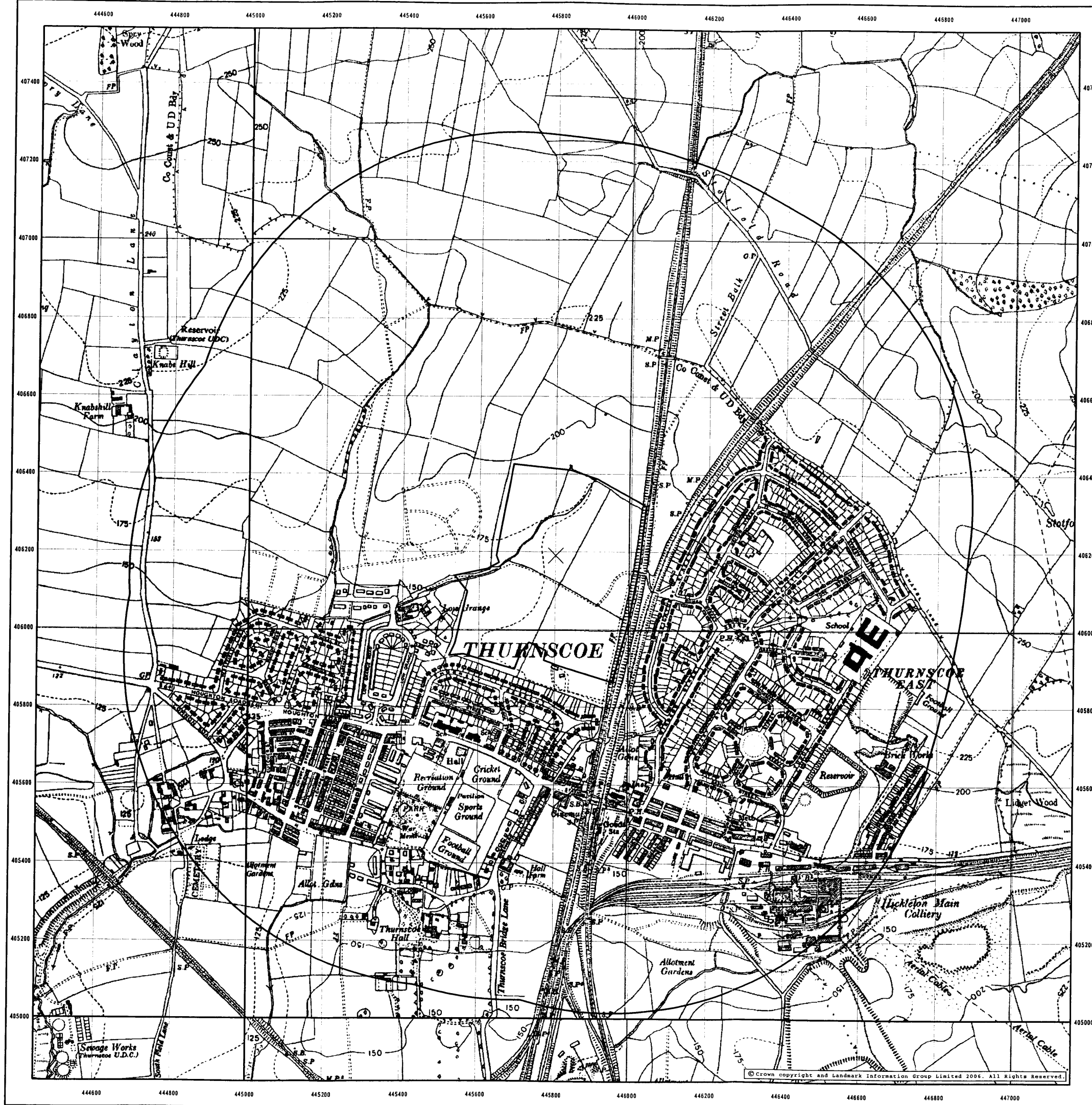
Ordnance Survey Plan
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given on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

ORDNANCE SURVEY PLAN
Published 1955 to 1956
Source map scale - 1:10,560

1955	1956
1956	1956

Date(s) of Publication 5 of 9





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Leeds
LS6 2QH

SITE DETAILS Grid Reference **445800 406150**

Land at Thurnsoce

Rotherham
S63 0AQ

Historical Map Legend

Inactive Quarry, Chalk Pit or Clay Pit	Active Quarry, Chalk Pit or Clay Pit	Culvert	
Slope	Slope		
Pylon	Electricity Transmission Line	Direction of Water flow	Coppice, Osier
Marsh	Saltings	Orchard Tree	Reeds
Rough Grassland	Scrub	Heath	Bracken
Coniferous Tree (Surveyed)	Coniferous Tree (Not Surveyed)	Non-coniferous Tree (Surveyed)	Non-coniferous Tree (Not Surveyed)

Ordnance Survey Plan 1
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1954 the 1:2,500 scale was adopted for mapping urban areas and by 1956 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given on the right 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.

ORDNANCE SURVEY PLAN
Published 1961 to 1962
Source map scale - 1:1,250

1961	1961	1961
1962	1962	1962

Date(s) of Publication 5 of 10

CLIENT DETAILS Envirocheck Order No. **EC19607481_3_2**
(03-May-2006 16:41)

Customer Ref: Mr J Race, CHG/03
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Leeds
LS6 2QH

SITE DETAILS Grid Reference **445800 406150**

Land at Thurnsoe

Rotherham
S63 0AQ

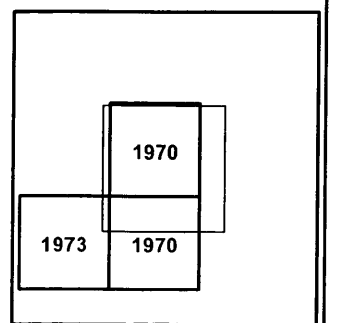
Historical Map Legend

Inactive Quarry, Chalk Pit or Clay Pit	Active Quarry, Chalk Pit or Clay Pit	Culvert
Slope	Slope	
Pylon	Electricity Transmission Line	Direction of Water flow
Marsh	Saltings	Orchard Tree
Rough Grassland	Scrub	Heath
Coniferous Tree (Surveyed)	Coniferous Tree (Not Surveyed)	Non-coniferous Tree (Surveyed)
Non-coniferous Tree (Not Surveyed)		

Ordnance Survey Plan **2**

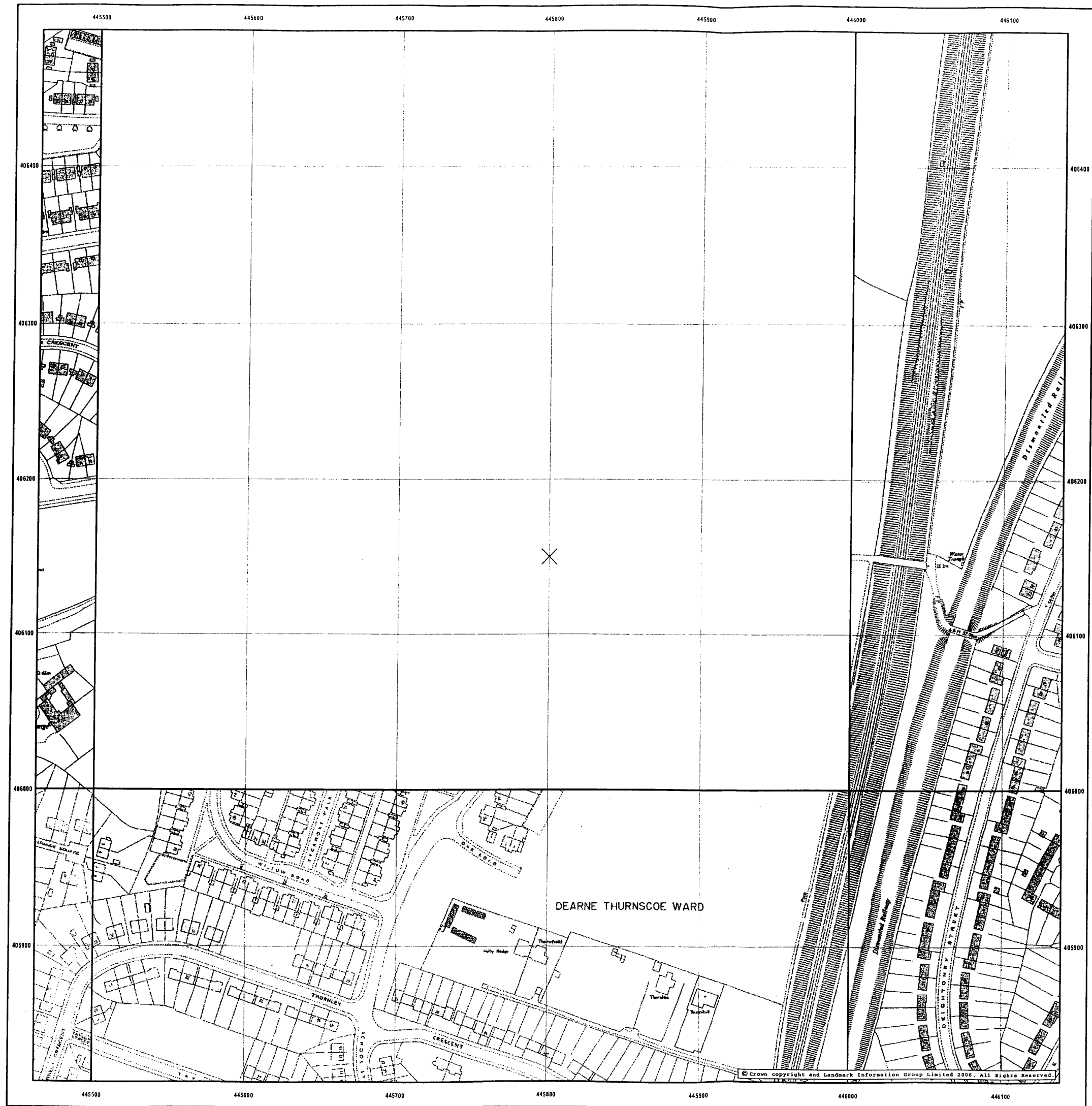
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given on the right 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.

ORDNANCE SURVEY PLAN
Published 1970 to 1973
Source map scale - 1:1,250



Date(s) of Publication 6 of 10





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Northwest House 5-6 Northwest Business Park
Leeds
LS6 2QH

SITE DETAILS Grid Reference 445800 406150
Land at Thurnscoe

Rotherham
S63 0AQ

Historical Map Legend

- | | | |
|--|--------------------------------------|------------------------------------|
| | | |
| Inactive Quarry, Chalk Pit or Clay Pit | Active Quarry, Chalk Pit or Clay Pit | Culvert |
| | | |
| Slope | Slope | |
| | | |
| Pylon | Electricity Transmission Line | Direction of Water flow |
| | | |
| Marsh | Saltings | Orchard Tree |
| | | |
| Rough Grassland | Scrub | Heath |
| | | |
| Coniferous Tree (Surveyed) | Coniferous Tree (Not Surveyed) | Non-coniferous Tree (Surveyed) |
| | | |
| Coppice, Osier | Reeds | Bracken |
| | | |
| Coniferous Tree (Surveyed) | Coniferous Tree (Not Surveyed) | Non-coniferous Tree (Not Surveyed) |

Additional SIMs 1
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1991, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

ORDNANCE SURVEY PLAN
Published 1961 to 1988
Source map scale - 1:1,250

1961		1961
1978	1988	1982

Date(s) of Publication 7 of 10



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Customer Ref: Mr J Race, CHG/03
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SITE DETAILS Grid Reference **445800 406190**
Land at Thurnscoe

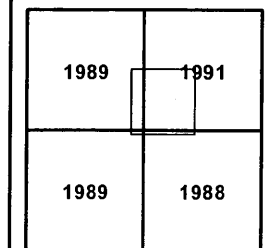
Rotherham
S63 0AQ

Historical Map Legend

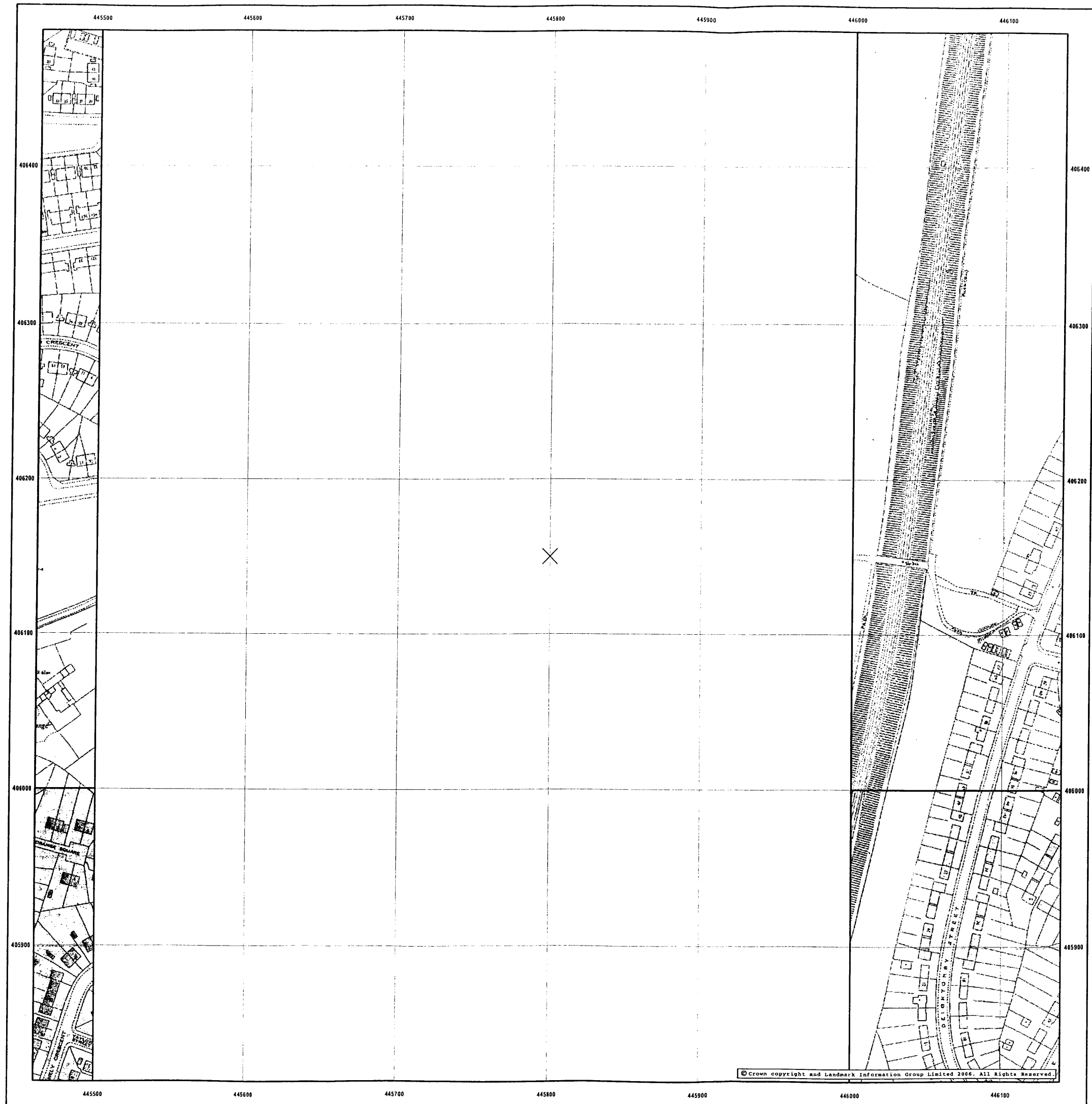
Chalk Pit, Clay Pit, or Quarry	Non-coniferous Trees	Bracken
Gravel Pit	Coniferous Trees	Heath
Sand Pit	Scrub	Rough Grassland
Disused Pit or Quarry	Lake, Loch or Pond	Reeds
Refuse or Slag Heap	Pylon	Saltings
Direction of Flow of Water		Marsh
Cutting	Embankment	
Road Under	Road Over	Level Crossing
Foot Bridge	Standard Gauge Single Track	Siding, Tramway or Mineral Line
Narrow Gauge		

Ordnance Survey Plan **2**
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 on the right 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.

ORDNANCE SURVEY PLAN
Published 1988 to 1991
Source map scale - 1:10,000



Date(s) of Publication 8 of 9



CLIENT DETAILS Envirocheck Order No. **EC19607481_3_2**
(03 May 2006 16:41)

Customer Ref: Mr J Race, CHG/03
ARP Geotechnical Ltd
Northwest House 5-6 Northwest Business Park
Leeds
LS6 2QH

SITE DETAILS Grid Reference **445800 406150**

Land at Thurnsoce

Rotherham
S63 0AQ

Historical Map Legend

Inactive Quarry, Chalk Pit or Clay Pit	Active Quarry, Chalk Pit or Clay Pit	Culvert	
Slope	Slope		
Pylon	Electricity Transmission Line	Direction of Water flow	Coppice, Osier
Marsh	Saltings	Orchard Tree	Reeds
Rough Grassland	Scrub	Heath	Bracken
Coniferous Tree (Surveyed)	Coniferous Tree (Not Surveyed)	Non-coniferous Tree (Surveyed)	Non-coniferous Tree (Not Surveyed)

Additional SIMs 2
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1991, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

ORDNANCE SURVEY PLAN
Published 1982 to 1989
Source map scale - 1:1,250

1989	1989
1982	1989

Date(s) of Publication 8 of 10

CLIENT DETAILS Envirocheck Order No. EC19607481_3_2
(03-May-2006 16:41)

Customer Ref: Mr J Race, CHG/03
ARP Geotechnical Ltd
Northwest House 5-6 Northwest Business Park
Leeds
LS6 2QH

SITE DETAILS Grid Reference 445800 406150

Land at Thurnsoce

Rotherham
S63 0AQ

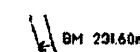
Historical Map Legend



Slope



Slope



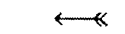
Bench Mark



Wells



Buildings with
Building Seed



Direction of
Water flow



Pylon



Electricity
Transmission Line

Administrative Boundaries



Civil parish/community boundary



District boundary



County boundary



Boundary post/stone



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

Large-Scale National Grid Data

'Large Scale National Grid Data' superseded SW 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.

ORDNANCE SURVEY PLAN Published 1993

Source map scale - 1:1,250

1993	1993	1993
1993	1993	1993

Date(s) of Publication 9 of 10

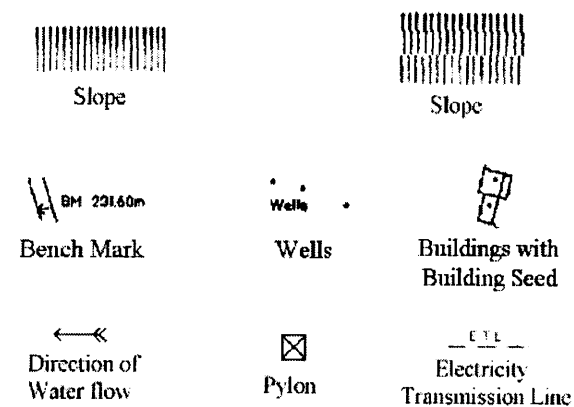


CLIENT DETAILS Envirocheck Order No. **EC19607481_3_2**
(01-May-2006 16:42)
Customer Ref: Mr J Race, CHG/03
ARP Geotechnical Ltd
Northwest House 5-6 Northwest Business Park
Leeds
LS6 2QH

SITE DETAILS Grid Reference **445800 406150**
Land at Thurnsoce

Rotherham
S63 0AQ

Historical Map Legend

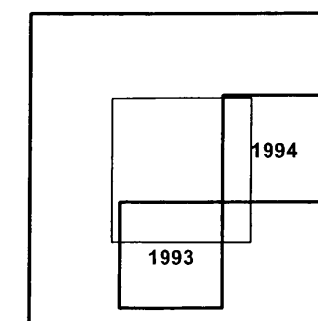


Administrative Boundaries

- • • • • 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)

Large-Scale National Grid Data **2**
'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.

ORDNANCE SURVEY PLAN
Published 1993 to 1994
Source map scale - 1:1,250



Date(s) of Publication 10 of 10

CLIENT DETAILS Envirocheck Order No. **QC19607481_2_2**
(01-May-2004 16:41)
Customer Ref: Mr J Race, CHG/03
ARP Geotechnical Ltd
Northwest House 5-6 Northwest Business Park
Leeds
LS6 2QH

SITE DETAILS Grid Reference **445800 406190**
Land at Thurnscoe

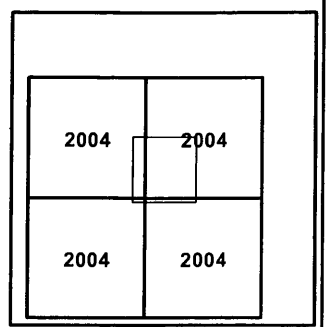
Rotherham
S63 0AQ

Historical Map Legend

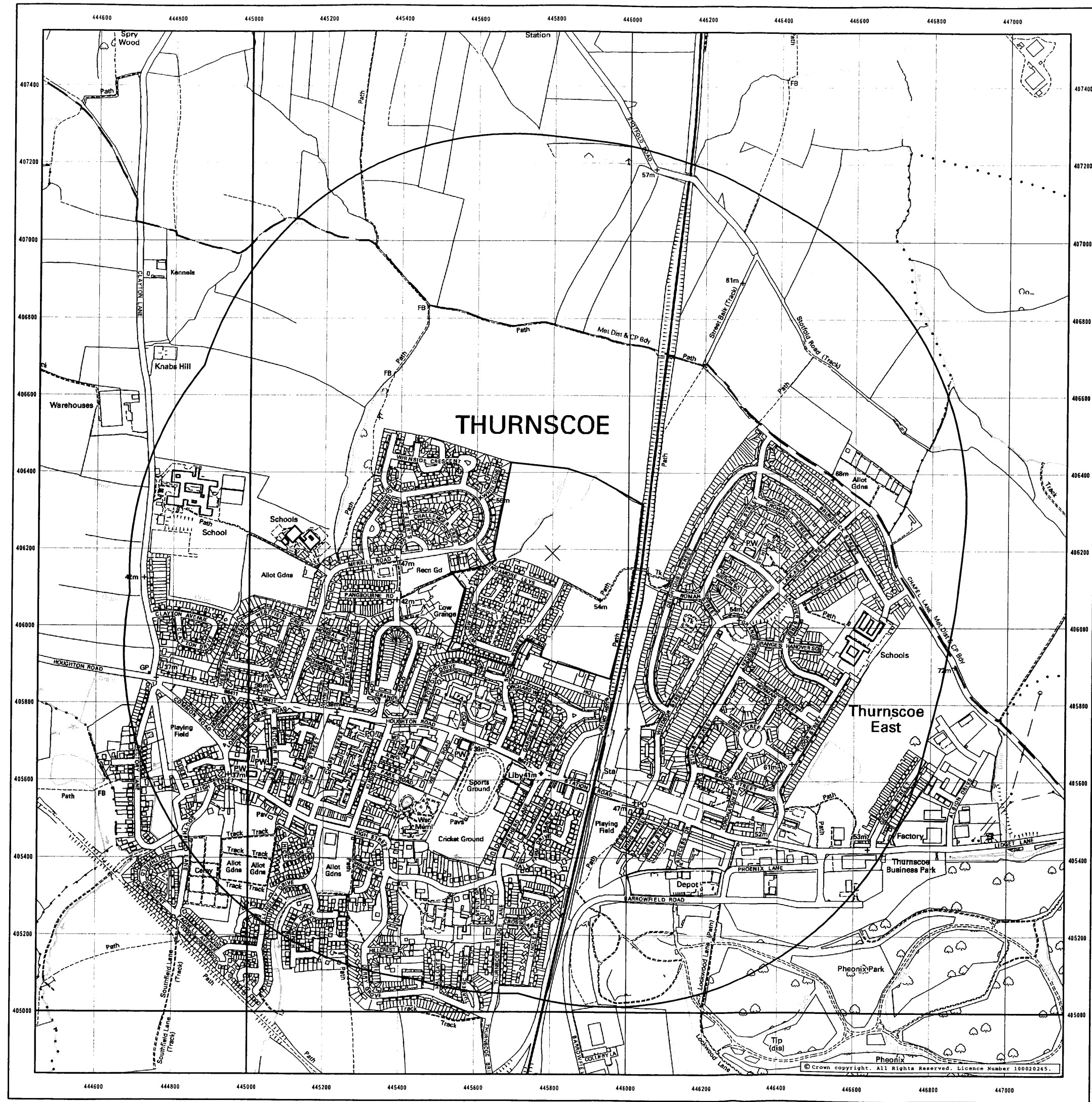
- | | | | |
|--|------------------------------------|--|--|
| | Non-coniferous Trees | | Pylon |
| | Coniferous Trees | | Telephone Line (where shown) |
| | Orchard | | Electricity Transmission Line (with poles) |
| | Rough Grassland | | Gravel Pit |
| | Heath | | Shingle |
| | Scrub | | Refuse Tip or Slag Heap |
| | Marsh, Salt Marsh or Reeds | | Sand |
| | County Boundary (England only) | | Sand Pit |
| | Civil Parish or Community Boundary | | Slopes |
| | Constituency Boundary | | District, Unitary, Metropolitan, London Borough Boundary |

10K Raster Mapping 1
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.

ORDNANCE SURVEY PLAN
Published 2004
Source map scale - 1:10,000



Date(s) of Publication 9 of 9



APPENDIX C

COAL MINING REPORT

ARP GEOTECHNICAL LTD,
NORTHWEST BUSINESS PARK 5-6,
SERVIA HILL,
LEEDS,
WEST YORKSHIRE,
LS6 2QH

This matter is being dealt with by Darren Moody

Our Ref: **10174131-06**

Your Ref: CHG/03

Electronic Ref:

RRUID: 007.00011681760001

Date: 03 May 2006

Dear Sir,

Coal Mining Report

LAND AT, THURNSCOE, ROTHERHAM, SOUTH YORKSHIRE

I refer to the enquiry dated 02nd May 2006, received 02nd May 2006, in connection with the above.

This report is based on and limited to the records in the possession of The Coal Authority at the time the search is answered.

Ordnance Survey (O.S.) is undertaking a Positional Accuracy Improvement Programme of its mapping data. The Coal Authority (CA) has no control over the timing of issue of Positionally Improved mapping data by O.S. or over users of that data. In some instances the relative position between surface features and coal mining features may alter as a consequence of this programme. The CA will ensure that the integrity of its database is maintained by replottting some mining information to sustain the relationship between that mining information and the improved O.S. surface positions, some of which are now being released. However, mining reports are currently being produced against pre improved O.S. mapping whilst the Authority updates its database in line with the O.S. changes.

Past Underground Mining

The property is within the likely zone of influence on the surface from workings in 8 seams of coal at 130m to 800m depth, the last date of working being 1981.

Ground movement from the above mentioned past coal workings should by now have ceased.

Present Underground Mining

The property is not within the zone of likely physical influence on the surface from any present underground coal workings.

Future Underground Mining

The property is not within a geographical area for which a licence to extract coal by underground methods is awaiting determination by the Coal Authority.

The property is not within a geographical area for which a licence to extract coal by underground methods has been granted.

The property is not within the zone of likely physical influence at the surface from plans of future workings in our possession.

However reserves of coal exist in the locality which could be worked at some time in the future subject to feasibility, licences, and planning consents.

We have no record of any notice of the risk of the land being affected by subsidence being given under S.46 of the Coal Mining Subsidence Act 1991.

Shafts and Adits

We have no knowledge of any mine entries within, or within 20 metres of, the boundary of the property.

Surface Geology

Records in our possession do not disclose any fault or other line of weakness at the surface as having affected the stability of the property.

Past Opencast Mining

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

Present Opencast Mining

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

Future Opencast Mining

The property is not within 800 metres of the geographical boundary of an opencast site for which a licence to extract coal by opencast methods is awaiting determination.

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

Subsidence

The records in our possession do not disclose any damage notice or claim having been given, made or pursued in respect of the property since 1 January 1984.

The records in our possession do not disclose any current "Stop Notice" affecting the property.

The records in our possession do not show any request having been made to execute preventative works under S.33 of the Coal Mining Subsidence Act 1991.

Withdrawal of Support

The property lies within a geographical area in respect of which a notice of entitlement to withdraw support was published in 1946.

The property does not lie within a geographical area in respect of which a notice has been given under S.41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

Working Facilities Orders

The property is not within a geographical area that is the subject of an Order made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to Owners of Former Copyhold Land

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

Additional Remarks

These replies are prepared in accordance with the 2003 editions of the Coal Authority's Terms and Conditions, User Guide and the Law Society's Guidance Notes.

Copyright in coal mining reports and certificates belongs to the Coal Authority. Information used to compile this report is protected by the Coal Authority's database right. All rights are reserved and unauthorised use is prohibited. Copyright and other intellectual property is not transferred to external parties by possession of a mining report or certificate, however those for whom the report is supplied have the right to use it.

Yours faithfully

A handwritten signature in black ink, appearing to read 'Pennell', with a stylized flourish at the end.

Stephen Pennell

Director of Mining Information and Services



Crown Copyright.

PLAN NOT TO SCALE

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This is a plan of the boundaries of the property in respect of which this report has been prepared. It is the responsibility of the user to ensure that the boundaries shown correspond with those of the property.

APPROXIMATE POSITION OF ENQUIRY BOUNDARY SHOWN



A P P E N D I X D

ENVIROCHECK REPORT

Envirocheck[®] Report:

Datasheet

Report on:

Land at Thurnsoce
Rotherham
S63 0AQ

National Grid Reference :

445780, 406140

Site Area (Ha) :

19.55

Prepared For :

ARP Geotechnical Ltd
Northwest House
5-6 Northwest Business Park
Leeds
LS6 2QH

Your Reference:

Mr J Race, CHG/03

Summary

Agency & Hydrological

Waste

Hazardous Substances

Geological

Industrial Land Use

Sensitive Land Use

Data Currency

Data Suppliers & Copyright Statements

Useful Contacts

BGS Borehole Order Form

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 Data Sheet places great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from English Nature (and the Scottish and Welsh equivalents), the Environment Agency (and the Scottish equivalent) 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 legend 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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Data Type	On Site	850m from site
Agency & Hydrological		
Local Authority Pollution Prevention and Controls		1
Local Authority Pollution Prevention and Control Enforcements		
Contaminated Land Register Entries and Notices		
Discharge Consents		6
Enforcement and Prohibition Notices		
Integrated Pollution Controls		1
Integrated Pollution Prevention And Control		
Local Authority Integrated Pollution Prevention And Control		
Nearest Surface Water Feature	Yes	
Pollution Incidents to Controlled Waters		2
Substantiated Pollution Incident Register		1
Prosecutions Relating to Authorised Processes		
Prosecutions Relating to Controlled Waters		
Water Industry Act Referrals		
Registered Radioactive Substances		
River Quality		1
River Quality Biology Sampling Points		
River Quality Chemistry Sampling Points		
Water Abstractions		
Groundwater Vulnerability	Yes	
Source Protection Zones		
Extreme Flooding from Rivers or Sea without Defences		
Flooding from Rivers or Sea without Defences		Yes
Areas Benefiting from Flood Defences		
Flood Water Storage Areas		
Flood Defences		
River Flood Data (Scotland)		
Waste		
BGS Recorded Landfill Sites		1
Integrated Pollution Control Registered Waste Sites		
Licensed Waste Management Facilities (Landfill Boundaries)		
Licensed Waste Management Facilities (Locations)		1
Local Authority Recorded Landfill Sites		5
Registered Landfill Sites		2
Registered Waste Transfer Sites		
Registered Waste Treatment or Disposal Sites		

Data Type	On Site	850m from site
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 Boreholes	2	58
BGS Recorded Mineral Sites		3
BGS 1:625,000 Solid Geology	Yes	
Brine Compensation Areas		
Coal Mining Affected Areas	Yes	
Shallow Mining Hazards	Yes	Yes
Potential for Collapsible Ground Stability Hazards		
Potential for Compressible Ground Stability Hazards		Yes
Potential for Ground Dissolution Stability Hazards		
Potential for Landslide Ground Stability Hazards	Yes	Yes
Potential for Running Sand Ground Stability Hazards		Yes
Potential for Shrinking or Swelling Clay Ground Stability Hazards	Yes	
Mining Instability	Yes	
Natural and Mining Cavities		
Radon Affected Areas	Yes	
Radon Protection Measures		
Industrial Land Use		
Contemporary Trade Directory Entries		30
Fuel Station Entries		1

Data Type	On Site	850m from site
Sensitive Land Uses		
Areas of Adopted Green Belt	1	1
Areas of Unadopted Green Belt		
Areas of Outstanding Natural Beauty		
Environmentally Sensitive Areas		
Forest Parks		
Local Nature Reserves		
Marine Nature Reserves		
National Nature Reserves		
National Parks		
National Scenic Areas		
Nitrate Sensitive Areas		
Nitrate Vulnerable Zones	1	
Ramsar Sites		
Sites of Special Scientific Interest		
Special Areas of Conservation		
Special Protection Areas		

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Local Authority Pollution Prevention and Controls					
1	Name: Larratt Pepper & Sons Ltd Location: 6 Clayton Lane, Thurnscoe, ROTHERHAM, South Yorks, S63 0RU Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa70 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1 Waste oil burners, less than 0.4MW net rated thermal input Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address	W	746	1	444780 405910
Discharge Consents					
2	Operator: Yorkshire Forward Property Type: Coal Extraction, Deep Mine - Abandoned Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 1 Effective Date: 16th March 1999 Issue Date: 16th March 1999 Revocation Date: 31st December 1999 Discharge Type: Trade Discharges - Site Drainage Discharge: Ditch Environment: Receiving Water: Thurnscoe Dyke Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	SE	692	2	446250 405240
Discharge Consents					
2	Operator: Yorkshire Forward Property Type: Coal Extraction, Deep Mine - Abandoned Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 2 Effective Date: 1st January 2000 Issue Date: 16th March 1999 Revocation Date: 23rd September 2003 Discharge Type: Trade Discharges - Site Drainage Discharge: Ditch Environment: Receiving Water: Thurnscoe Dyke Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	SE	692	2	446250 405240
Discharge Consents					
3	Operator: British Coal Corporation Property Type: Undefined Or Other Location: Hickleton Colliery (Ncb) Outlet No., 1-Yard Drainage Interceptor Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3516 Permit Version: 1 Effective Date: 12th September 1983 Issue Date: 12th September 1983 Revocation Date: 1st March 1991 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Not Supplied Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	SE	750	2	446300 405200

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Discharge Consents					
4	Operator: British Coal Corporation Property Type: Undefined Or Other Location: Hickleton Colliery (Ncb) Outlet No.,6-New Outlet Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3168 Permit Version: 1 Effective Date: 12th September 1983 Issue Date: 12th September 1983 Revocation Date: 1st March 1991 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Not Supplied Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	SE	801	2	446400 405200
Discharge Consents					
5	Operator: Yorkshire Forward Property Type: Coal Extraction, Deep Mine - Abandoned Location: Hickleton Former Colliery Site,Thurnscoe, South Yorkshire,England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 1 Effective Date: 16th March 1999 Issue Date: 16th March 1999 Revocation Date: 31st December 1999 Discharge Type: Trade Discharges - Site Drainage Discharge: Ditch Environment: Receiving Water: Thurnscoe Dyke Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	S	835	2	445980 405030
Discharge Consents					
5	Operator: Yorkshire Forward Property Type: Coal Extraction, Deep Mine - Abandoned Location: Hickleton Former Colliery Site,Thurnscoe, South Yorkshire,England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 2 Effective Date: 1st January 2000 Issue Date: 16th March 1999 Revocation Date: 23rd September 2003 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe Dyke Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	S	835	2	445980 405030
Integrated Pollution Controls					
6	Name: Hanley Swiffen & Co Ltd Location: 107 High Street,Thurnscoe,ROTHERHAM, South Yorkshire,S63 0QZ Authority: Environment Agency, North East Region Permit Reference: AI4689 Dated: 5th April 1993 Process Type: Application since found to be exempt from IPC Description: 2.2 A (C) Non-ferrous Metal processes within the Metal Industry Status: Application since found to be exempt from IPC Positional Accuracy: Unknown	SW	627	2	445040 405540
Nearest Surface Water Feature					
-		N	0	-	445800 406290

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Pollution Incidents to Controlled Waters					
7	Property Type: Water Company Sewage: Storm Overflow Location: Walbert Avenue, Thurnscoe, ROTHERHAM Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: No Fish Killed Incident Date: 21st September 1995 Incident Reference: SH950004 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Severity of Incident: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	S	629	2	445500 405300
Pollution Incidents to Controlled Waters					
8	Property Type: Other General Premises Location: THURNSCOPE Authority: Environment Agency, North East Region Pollutant: Oils - Waste Oil Note: No Fish Killed Incident Date: 21st August 1997 Incident Reference: SH970396 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Severity of Incident: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	SW	711	2	445200 405300
Substantiated Pollution Incident Register					
9	Authority: Environment Agency - North East Region, Ridings Area Incident Date: 12th February 2003 Incident Reference: 136628 Severity of Water: Category 4 - No Impact Impact: Severity of Air: Category 4 - No Impact Impact: Severity of Land: Category 2 - Significant Incident Impact: Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Vehicles And Vehicle Parts	E	185	2	446190 406060
River Quality					
-	Name: Ings/Carr/Thurnscoe_Dikes GQA Grade: River Quality C Reach: Hickleton_Main_Colli_Houghton_Bec Estimated Distance of Reach (km): 2.6 Flow rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	SE	748	2	446230 405170
Groundwater Vulnerability					
-	Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 12 Vale of York Scale: 1:100,000	-	0	2	445780 406140
Groundwater Vulnerability					
-	Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 12 Vale of York Scale: 1:100,000	E	0	2	445820 406140
Drift Deposits					
-	Description: None	-	-	-	-

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Extreme Flooding from Rivers or Sea without Defences					
-	Description None	-	-	-	-
Flooding from Rivers or Sea without Defences					
-	Flood Plain Type: Fluvial Summary: Environment Agency, Head Office Boundary Accuracy: As Supplied	SW	801	2	444760 405680
Areas Benefiting from Flood Defences					
-	Description None	-	-	-	-
Flood Water Storage Areas					
-	Description None	-	-	-	-
Flood Defences					
-	Description None	-	-	-	-
River Flood Data (Scotland)					
-	Description None	-	-	-	-

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
BGS Recorded Landfill Sites					
10	Site Name: Brickworks Quarry Location: Thurnscoe, NR DEARNE, South Yorks 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: Good	SE	591	-	446520 405710
Licensed Waste Management Facilities (Locations)					
11	Licence Number: 65316 Location: 84 High Street, Thurnscoe, Rotherham, South Yorkshire, S63 0QH Operator Name: Mrs Stephanie Anne Speight Operator Location: 84 High Street, Thurnscoe, Rotherham, South Yorkshire, S63 0QH Authority: Environment Agency - North East Region, Ridings Area Site Category: End of Life Vehicles Licence Status: Surrendered Issued: 11th August 2004 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 15th July 2005 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	SW	514	2	445270 405490
Local Authority Landfill Coverage					
-	Name: Barnsley Metropolitan Borough Council - Has supplied landfill data	-	0	1	445780 406140
Local Authority Landfill Coverage					
-	Name: Doncaster Metropolitan Borough Council - Has supplied landfill data	N	352	3	445940 406750
Local Authority Recorded Landfill Sites					
12	Location: Not Supplied Reference: 9 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	E	48	1	446060 406140
Local Authority Recorded Landfill Sites					
13	Location: Not Supplied Reference: 9 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	NE	365	1	446310 406560
Local Authority Recorded Landfill Sites					
14	Location: Chapel Lane, Thurnscoe Reference: 65 Authority: Doncaster Metropolitan Borough Council, Environmental Services Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	NE	365	3	446310 406560

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Local Authority Recorded Landfill Sites					
15	Location: Not Supplied Reference: 137 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	E	641	1	446620 405870
Local Authority Recorded Landfill Sites					
16	Location: Lidget Lane, Thurnscoe Reference: 102 Authority: Doncaster Metropolitan Borough Council, Environmental Services Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	SE	680	3	446250 405250
Registered Landfill Sites					
17	Licence Holder: Bamsley M.B.C. Licence Reference: WD 2 B 7 (WD20 B 196) Site Location: Chapel Lane (li), Thurnscoe, Rotherham, South Yorkshire Site Easting: 446060 Site Northing: 406090 Operator Location: Cleansing Div. Smithies La. Depot, Barnsley, South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill - Railway cutting Maximum Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st February 1981 Preceded By: Wd 2 D11 (Wd20 B196) Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: - Construction Ind. Wastes - Contaminated Rubbish/Bags/Sacks - Empty Used Containers - Household + Commercial Waste - Ind. Non-Haz. Inert, Non-Flammable - Ind. Non-Haz. Potentially Combustible - Medical, Surgical, Veterinary Wastes - Metal Scrap - Old Cars/Vehicles/Trailers - Scrap Rubber (Including Tyres) - Sewage Sludge - Slag, Boiler/Flue Cleanings - Tar, Pitch, Bitumen, Asphalts - Used Filter Materials \$	E	52	2	446060 406090

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Registered Landfill Sites					
18	Licence Holder: Doncaster M.B.C. Licence Reference: WD 2 D11 (WD20 B196) Site Location: Chapel Lane (I), Thurnscoe, Rotherham, South Yorkshire Site Easting: 446460 Site Northing: 406660 Operator Location: Town Hall, Barnsley, South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill - Railway cutting Maximum Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st July 1978 Preceded By: Not Given Licence: Superseded By: Wd 2 B 7 (Wd20 B 196) Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Demolition Rubble Other Inert Waste Road Mat'ls/Kerbs/Asphalt/Tarmac/Stone	NE	544	2	446460 406660

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
BGS Boreholes					
19	BGS Reference: Se40ne20/A Drilled Length: 6.1 Borehole Name: Thurnscoe A-D	E	0	4	446020 406240
BGS Boreholes					
20	BGS Reference: Se40ne20/B Drilled Length: 3.96 Borehole Name: Thurnscoe A-D	SE	0	4	445990 406040
BGS Boreholes					
21	BGS Reference: Se40ne20/C Drilled Length: 4.27 Borehole Name: Thurnscoe A-D	SE	2	4	445950 405860
BGS Boreholes					
22	BGS Reference: Se40ne90 Drilled Length: Not Supplied Borehole Name: Taylor Street Thurnscoe Tp2	SW	118	4	445560 405810
BGS Boreholes					
22	BGS Reference: Se40ne92 Drilled Length: Not Supplied Borehole Name: Taylor Street Thurnscoe Tp4	SW	119	4	445570 405810
BGS Boreholes					
22	BGS Reference: Se40ne89 Drilled Length: Not Supplied Borehole Name: Taylor Street Thurnscoe Tp1	SW	120	4	445560 405810
BGS Boreholes					
22	BGS Reference: Se40ne93 Drilled Length: Not Supplied Borehole Name: Taylor Street Thurnscoe Tp5	SW	120	4	445560 405810
BGS Boreholes					
22	BGS Reference: Se40ne91 Drilled Length: Not Supplied Borehole Name: Taylor Street Thurnscoe Tp3	SW	121	4	445560 405810
BGS Boreholes					
22	BGS Reference: Se40ne94 Drilled Length: Not Supplied Borehole Name: Taylor Street Thurnscoe Tp6	SW	121	4	445560 405810
BGS Boreholes					
22	BGS Reference: Se40ne95 Drilled Length: Not Supplied Borehole Name: Taylor Street Thurnscoe Tp7	SW	122	4	445560 405810
BGS Boreholes					
22	BGS Reference: Se40ne96 Drilled Length: Not Supplied Borehole Name: Taylor Street Thurnscoe Tp8	SW	122	4	445570 405810
BGS Boreholes					
22	BGS Reference: Se40ne97 Drilled Length: Not Supplied Borehole Name: Taylor Street Thurnscoe Tp9	SW	122	4	445560 405810
BGS Boreholes					
23	BGS Reference: Se40ne50 Drilled Length: 40.28 Borehole Name: Hickleton Colliery No.19 Ugph	NW	124	4	445550 406370
BGS Boreholes					
24	BGS Reference: Se40ne49 Drilled Length: 40.23 Borehole Name: Hickleton Colliery No.18 Ugph	NW	152	4	445560 406500
BGS Boreholes					
25	BGS Reference: Se40ne101 Drilled Length: 3.35 Borehole Name: Thurnscoe J+I School Bh B	SW	163	4	445540 405770
BGS Boreholes					
25	BGS Reference: Se40ne100 Drilled Length: 3.05 Borehole Name: Thurnscoe J+I School Bh A	SW	174	4	445530 405760

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
BGS Boreholes					
26	BGS Reference: Se40ne55 Drilled Length: Not Supplied Borehole Name: Hickleton Colliery Pillar Section	N	200	4	445760 406620
BGS Boreholes					
27	BGS Reference: Se40ne63 Drilled Length: Not Supplied Borehole Name: Hickleton Colliery No.27 Ugph	SW	229	4	445480 405710
BGS Boreholes					
28	BGS Reference: Se40ne20/D Drilled Length: 1.83 Borehole Name: Thurnscoe A-D	S	262	4	445900 405610
BGS Boreholes					
29	BGS Reference: Se40ne117 Drilled Length: 3.2 Borehole Name: Thurnscoe Health Centre	SW	264	4	445450 405680
BGS Boreholes					
30	BGS Reference: Se40ne119 Drilled Length: 4.25 Borehole Name: Thurnscoe Health Centre	SW	267	4	445480 405670
BGS Boreholes					
31	BGS Reference: Se40ne118 Drilled Length: 3.35 Borehole Name: Thurnscoe Health Centre	SW	286	4	445440 405660
BGS Boreholes					
32	BGS Reference: Se40ne120 Drilled Length: 3.95 Borehole Name: Thurnscoe Health Centre	SW	289	4	445470 405650
BGS Boreholes					
33	BGS Reference: Se40ne111 Drilled Length: 3.05 Borehole Name: Thurnscoe Bh 7	W	323	4	445220 406210
BGS Boreholes					
34	BGS Reference: Se40ne107 Drilled Length: 3.05 Borehole Name: Thurnscoe Bh 3	W	341	4	445210 406240
BGS Boreholes					
35	BGS Reference: Se40ne38 Drilled Length: 36.17 Borehole Name: Hickleton Main Colliery No.7 Ugph	SW	354	4	445170 405880
BGS Boreholes					
36	BGS Reference: Se40ne48 Drilled Length: 41.91 Borehole Name: Hickleton Colliery No.17 Ugph	NW	355	4	445370 406580
BGS Boreholes					
37	BGS Reference: Se40ne114 Drilled Length: 3.35 Borehole Name: Thurnscoe Bh 10	W	359	4	445180 406190
BGS Boreholes					
38	BGS Reference: Se40ne110 Drilled Length: 1.83 Borehole Name: Thurnscoe Bh 6	W	365	4	445180 406220
BGS Boreholes					
39	BGS Reference: Se40ne19/D Drilled Length: 10.06 Borehole Name: Clayton With Frickley Railway Bores A-D	NE	367	4	446080 406710
BGS Boreholes					
40	BGS Reference: Se40ne106 Drilled Length: 3.05 Borehole Name: Thurnscoe Bh 2	W	382	4	445170 406250
BGS Boreholes					
41	BGS Reference: Se40ne113 Drilled Length: 3.05 Borehole Name: Thurnscoe Bh 9	W	390	4	445150 406200

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
BGS Boreholes					
42	BGS Reference: Se40ne109 Drilled Length: 3.05 Borehole Name: Thurnscoe Bh 5	W	406	4	445140 406230
BGS Boreholes					
43	BGS Reference: Se40ne105 Drilled Length: 3.05 Borehole Name: Thurnscoe Bh 1	W	423	4	445130 406260
BGS Boreholes					
44	BGS Reference: Se40ne64 Drilled Length: Not Supplied Borehole Name: Hickleton Colliery No.29 Ugph	NW	425	4	445500 406800
BGS Boreholes					
45	BGS Reference: Se40ne54 Drilled Length: 89.42 Borehole Name: Goldthorpe High Gate Colliery No.39 Yrl 13348	NE	430	4	446080 406780
BGS Boreholes					
46	BGS Reference: Se40ne112 Drilled Length: 3.05 Borehole Name: Thurnscoe Bh 8	W	433	4	445110 406220
BGS Boreholes					
47	BGS Reference: Se40ne108 Drilled Length: 3.05 Borehole Name: Thurnscoe Bh 4	W	440	4	445110 406250
BGS Boreholes					
48	BGS Reference: Se40ne77 Drilled Length: 34.06 Borehole Name: Hickleton Main Colliery No.8 Ugph	N	603	4	446020 406990
BGS Boreholes					
49	BGS Reference: Se40nw187 Drilled Length: 2.44 Borehole Name: Thurnscoe Comp School Bh 10	W	628	4	444930 406320
BGS Boreholes					
50	BGS Reference: Se40nw192 Drilled Length: 2.13 Borehole Name: Thurnscoe Comp School Bh 15	W	651	4	444910 406300
BGS Boreholes					
51	BGS Reference: Se40nw186 Drilled Length: 2.13 Borehole Name: Thurnscoe Comp School Bh 9	W	659	4	444910 406340
BGS Boreholes					
52	BGS Reference: Se40ne19/C Drilled Length: 5.18 Borehole Name: Clayton With Frickley Railway Bores A-D	N	660	4	446120 407010
BGS Boreholes					
53	BGS Reference: Se40nw185 Drilled Length: 1.52 Borehole Name: Thurnscoe Comp School Bh 8	W	687	4	444880 406350
BGS Boreholes					
54	BGS Reference: Se40nw191 Drilled Length: 1.22 Borehole Name: Thurnscoe Comp School Bh 14	W	687	4	444870 406300
BGS Boreholes					
55	BGS Reference: Se40ne61 Drilled Length: Not Supplied Borehole Name: Lane Thwaite Surf Bh26	SW	695	4	445030 405440
BGS Boreholes					
56	BGS Reference: Se40nw181 Drilled Length: 1.83 Borehole Name: Thurnscoe Comp School Bh 4	W	709	4	444870 406390
BGS Boreholes					
57	BGS Reference: Se40nw184 Drilled Length: 2.44 Borehole Name: Thurnscoe Comp School Bh 7	W	720	4	444850 406360

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
BGS Boreholes					
58	BGS Reference: Se40nw190 Drilled Length: .91 Borehole Name: Thurnscoe Comp School Bh 13	W	724	4	444830 406310
BGS Boreholes					
59	BGS Reference: Se40nw183 Drilled Length: 1.83 Borehole Name: Thurnscoe Comp School Bh 6	W	745	4	444820 406350
BGS Boreholes					
60	BGS Reference: Se40nw180 Drilled Length: 2.13 Borehole Name: Thurnscoe Comp School Bh 3	W	752	4	444830 406390
BGS Boreholes					
61	BGS Reference: Se40nw189 Drilled Length: .91 Borehole Name: Thurnscoe Comp School Bh 12	W	754	4	444800 406300
BGS Boreholes					
62	BGS Reference: Se40ne16 Drilled Length: 831.49 Borehole Name: Hickleton Main Colliery	SE	756	4	446470 405310
BGS Boreholes					
63	BGS Reference: Se40nw182 Drilled Length: 2.13 Borehole Name: Thurnscoe Comp School Bh 5	W	768	4	444800 406350
BGS Boreholes					
64	BGS Reference: Se40nw179 Drilled Length: 1.83 Borehole Name: Thurnscoe Comp School Bh 2	W	785	4	444790 406400
BGS Boreholes					
65	BGS Reference: Se40nw188 Drilled Length: 2.13 Borehole Name: Thurnscoe Comp School Bh 11	W	790	4	444770 406320
BGS Boreholes					
66	BGS Reference: Se40ne21 Drilled Length: 4.27 Borehole Name: South Of Thurnscol East Road Bridge	S	797	4	445790 405080
BGS Boreholes					
67	BGS Reference: Se40nw178 Drilled Length: 2.13 Borehole Name: Thurnscoe Comp School Bh 1	W	809	4	444760 406370
BGS Boreholes					
68	BGS Reference: Se40ne56 Drilled Length: Not Supplied Borehole Name: Derry Grove Surf Bh	SW	817	4	445190 405190
BGS Boreholes					
69	BGS Reference: Se40nw134 Drilled Length: 55.78 Borehole Name: Hickleton Colliery Ug28 & 28a	NW	832	4	444930 406760
BGS Recorded Mineral Sites					
70	Site Name: Hickleton Brickworks Location: Thurnscoe East, Thurnscoe, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13104 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Upper Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	SE	677	4	446620 405740

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
BGS Recorded Mineral Sites					
71	Site Name: Hickleton Main Colliery Location: Thurnscoe, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13099 Type: Underground Status: Ceased Operator: British Coal - N Yorkshire Group Operator Location: Po Box 13, Allerton Bywater, Castleford, West Yorkshire, Wf10 2al Periodic Type: Carboniferous Geology: Pennine Upper Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	SE	755	4	446470 405320
BGS Recorded Mineral Sites					
72	Site Name: Hickleton Colliery Methane Location: Thurnscoe, Rotherham Source: British Geological Survey, National Geoscience Information Service Reference: 11414 Type: Underground Status: Active Operator: Octagon Energy Ltd Operator Location: 16a Fore Street, Topsham, Exeter, Devon, Ex3 0hf Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Abandoned Mine Methane Positional Accuracy: Located by supplier to within 10m	SE	845	4	446550 405260
BGS 1:625,000 Solid Geology					
-	Description: Upper Westphalian (including Pennant Measures)	-	0	4	445780 406140
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.	-	0	5	445780 406140
Shallow Mining Hazards					
-	Risk: Low-Moderate source: British Geological Survey, National Geoscience Information Service	-	0	4	445780 406140
Shallow Mining Hazards					
-	Risk: Low-Moderate source: British Geological Survey, National Geoscience Information Service	N	312	4	445910 406710
Shallow Mining Hazards					
-	Risk: Low-Moderate source: British Geological Survey, National Geoscience Information Service	S	624	4	446110 405260
Potential for Collapsible Ground Stability Hazards					
-	Description: No Hazard	-	-	-	-
Potential for Compressible Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	-	0	4	445780 406140
Potential for Compressible Ground Stability Hazards					
-	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	SW	625	4	445050 405530
Potential for Compressible Ground Stability Hazards					
-	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	SE	732	4	446200 405180
Potential for Ground Dissolution Stability Hazards					
-	Description: No Hazard	-	-	-	-
Potential for Landslide Ground Stability Hazards					
-	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	-	0	4	445780 406140
Potential for Landslide Ground Stability Hazards					
-	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	SE	817	4	446350 405150

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Potential for Running Sand Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	-	0	4	445780 406140
Potential for Running Sand Ground Stability Hazards					
-	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	SW	625	4	445050 405530
Potential for Running Sand Ground Stability Hazards					
-	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	SE	732	4	446200 405180
Potential for Shrinking or Swelling Clay Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	N	0	4	445720 406290
Potential for Shrinking or Swelling Clay Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	-	0	4	445780 406140
Potential for Shrinking or Swelling Clay Ground Stability Hazards					
-	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	S	0	4	445780 406140
Potential for Shrinking or Swelling Clay Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	S	71	4	445870 405790
Potential for Shrinking or Swelling Clay Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	SE	86	4	446050 405890
Potential for Shrinking or Swelling Clay Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	NW	200	4	445470 406490
Potential for Shrinking or Swelling Clay Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	S	625	4	446020 405240
Potential for Shrinking or Swelling Clay Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	W	741	4	444800 406220
Potential for Shrinking or Swelling Clay Ground Stability Hazards					
-	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	SW	755	4	445120 405290
Mining Instability					
-	Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	-	0	-	445780 406140
Radon Affected Areas					
-	Description: Between 1% and 3% of homes are above the Action Level Source: Health Protection Agency	S	0	6	445780 406000
Radon Affected Areas					
-	Description: Between 1% and 3% of homes are above the Action Level Source: Health Protection Agency	-	0	6	445780 406140
Radon Affected Areas					
-	Description: Between 1% and 3% of homes are above the Action Level Source: Health Protection Agency	E	0	6	446000 406140
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	-	0	4	445780 406140

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Contemporary Trade Directory Entries					
73	Name: Premier Iron Craft Location: 12, Whin Gardens, Thurnscoe, Rotherham, South Yorkshire, S63 0PJ Classification: Wrought Ironwork Status: Active Positional Accuracy: Automatically positioned to the address	NW	19	-	445660 406370
Contemporary Trade Directory Entries					
74	Name: Radar Cleaning Services Location: 9, Deightonby Street, Thurnscoe, Rotherham, South Yorkshire, S63 0JB Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	SE	112	-	446060 405820
Contemporary Trade Directory Entries					
75	Name: Nippon Thompson (Europe) Location: 41, Briton Street, Thurnscoe, Rotherham, South Yorkshire, S63 0HH Classification: Bearing Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	E	237	-	446270 406270
Contemporary Trade Directory Entries					
76	Name: On The Move Design & Print Location: 19, Briton Square, Thurnscoe, Rotherham, South Yorkshire, S63 0HQ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	E	237	-	446260 406140
Contemporary Trade Directory Entries					
77	Name: A G Engineering Location: 22b, Briton Street, Thurnscoe, ROTHERHAM, South Yorkshire, S63 0HH Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	E	279	-	446310 406250
Contemporary Trade Directory Entries					
78	Name: Simpsons Pet Shop Location: 101a, Houghton Road, Thurnscoe, Rotherham, South Yorkshire, S63 0NG Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	SW	304	-	445280 405750
Contemporary Trade Directory Entries					
79	Name: Crystal Cleaning Group Location: 46, Merrill Road, Thurnscoe, Rotherham, South Yorkshire, S63 0PS Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	W	314	-	445220 406100
Contemporary Trade Directory Entries					
80	Name: Lidget Lane Pet Shop Location: 1, Lidget Lane, Thurnscoe, Rotherham, South Yorkshire, S63 0BY Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	SE	335	-	446060 405550
Contemporary Trade Directory Entries					
81	Name: Eco Scooters Bassetlaw Ltd Location: 113, Houghton Road, Thurnscoe, Rotherham, South Yorkshire, S63 0NG Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	SW	337	-	445230 405760
Contemporary Trade Directory Entries					
82	Name: Valley Park Cleaners Location: 9, Dane Street South, Thurnscoe, Rotherham, South Yorkshire, S63 0DW Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	SE	390	-	446280 405660
Contemporary Trade Directory Entries					
83	Name: Bradford Domestic Appliances Location: 32-34, Lidget Lane, Thurnscoe, Rotherham, South Yorkshire, S63 0BT Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	SE	403	-	446120 405500

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Contemporary Trade Directory Entries					
84	Name: Thurnscoe Filling Station Location: Houghton Road, Thurnscoe, Rotherham, South Yorkshire, S63 0NJ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	SW	408	-	445150 405760
Contemporary Trade Directory Entries					
85	Name: Chem Care Carpet & Upholstery Cleaners Location: 29, Hanover Street, Thurnscoe, Rotherham, South Yorkshire, S63 0DT Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	E	428	-	446410 405920
Contemporary Trade Directory Entries					
86	Name: C S Logistics Location: Unit 43, Thurnscoe Business Centre, Princess Dr, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	SE	438	-	446160 405480
Contemporary Trade Directory Entries					
86	Name: Raynors Autos Location: Princess Dr, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	SE	440	-	446160 405470
Contemporary Trade Directory Entries					
86	Name: Brandels Ltd Location: Unit 1 Princess Dr, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Brewers' Equipment & Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	SE	450	-	446150 405460
Contemporary Trade Directory Entries					
87	Name: Bob Green Location: Coronation St, Thurnscoe, Rotherham, South Yorkshire, S63 0EQ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	SE	460	-	446270 405530
Contemporary Trade Directory Entries					
88	Name: Patrick Drake Location: Unit 6 Princess Dr, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Cabinet Makers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	SE	478	-	446140 405430
Contemporary Trade Directory Entries					
89	Name: Go Mobility Ltd Location: Unit 19/20, Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Disability Equipment - Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	SE	499	-	446200 405430
Contemporary Trade Directory Entries					
89	Name: Clencoe Design Location: Unit 9, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	SE	499	-	446200 405430
Contemporary Trade Directory Entries					
90	Name: K L S Location: 84, High Street, Thurnscoe, Rotherham, South Yorkshire, S63 0QH Classification: Motor Cycle Breakers & Dismantlers Status: Active Positional Accuracy: Automatically positioned to the address	SW	513	-	445270 405490
Contemporary Trade Directory Entries					
91	Name: P & L Minis Location: 34, High Street, Thurnscoe, Rotherham, South Yorkshire, S63 0SU Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	SW	514	-	445430 405430

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Contemporary Trade Directory Entries					
92	Name: J W 24hr Recovery Location: 39, Westfield Crescent, Thurnscoe, Rotherham, South Yorkshire, S63 0PT Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	W	524	-	445010 406040
Contemporary Trade Directory Entries					
93	Name: Kesscass Scaffolding Services Location: 8, High Street, Thurnscoe, Rotherham, South Yorkshire, S63 0SU Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Automatically positioned to the address	S	568	-	445570 405340
Contemporary Trade Directory Entries					
94	Name: Uk Film Sales Location: Westfield Cr, Thurnscoe, Rotherham, South Yorkshire, S63 0PU Classification: Photographic Processors Status: Active Positional Accuracy: Manually positioned to the road within the address or location	W	569	-	444950 405940
Contemporary Trade Directory Entries					
95	Name: Church Hall Garage Location: High Street, Thurnscoe, Rotherham, South Yorkshire, S63 0QZ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	SW	614	-	445040 405560
Contemporary Trade Directory Entries					
96	Name: Coast Controls Ltd Location: Unit 4, Thurnscoe Business Park, Thurnscoe, Rotherham, South Yorkshire, S63 0BH Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	SE	623	-	446370 405400
Contemporary Trade Directory Entries					
97	Name: Alive Pub Supplies Location: Unit 36 Thurnscoe Business Centre, Princess Dr, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Manually positioned to the road within the address or location	SE	632	-	446350 405370
Contemporary Trade Directory Entries					
98	Name: P W E Accident & Repair Centre Location: 2, Thurnscoe Business Park, Thurnscoe, Rotherham, South Yorkshire, S63 0BH Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	SE	663	-	446430 405400
Contemporary Trade Directory Entries					
99	Name: Public Image Printwear Location: Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Screen Process Printers Status: Active Positional Accuracy: Automatically positioned to the address	SE	697	-	446470 405400
Fuel Station Entries					
100	Name: Thurnscoe Filling Station Location: Houghton Road, Thurnscoe, ROTHERHAM, South Yorkshire, S63 0NJ Brand: Out Of Industry Premises Type: Not Applicable Status: Out of Industry Positional Accuracy: Automatically positioned to the address	SW	408	-	445150 405760

Map ID	Details	Compass Direction	Estimated Distance From Site	Contact	NGR
Areas of Adopted Green Belt					
-	Authority: Barnsley Metropolitan Borough Council, Planning Department Plan Name: Barnsley Unitary Development Plan Status: Adopted Plan Date: 31st December 2000	E	0	7	446020 406150
Areas of Adopted Green Belt					
-	Authority: Doncaster Metropolitan Borough Council Plan Name: Doncaster Unitary Development Plan Status: Adopted Plan Date: 31st July 1998	N	349	8	445930 406740
Nitrate Vulnerable Zones					
-	Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	-	0	9	445780 406140

Data Type	Version	Update Cycle
Agency & Hydrological		
Local Authority Pollution Prevention and Controls		
Doncaster Metropolitan Borough Council Environmental Services	December-2005	Annual Rolling Update
Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	October-2005	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	October-2005	Annual Rolling Update
Discharge Consents		
Environment Agency North East Region	January-2006	Quarterly
Integrated Pollution Controls		
Environment Agency North East Region	January-2006	Quarterly
Integrated Pollution Prevention And Control		
Environment Agency North East Region	February-2006	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Doncaster Metropolitan Borough Council Environmental Services	December-2005	Annual Rolling Update
Barnsley Metropolitan Borough Council Environmental Health and Trading Standards	October-2005	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	January-2006	Quarterly
Pollution Incidents to Controlled Waters		
Environment Agency North East Region	December-1998	Not Applicable
Substantiated Pollution Incident Register		
Environment Agency - North East Region Ridings Area	January-2006	Quarterly
Water Industry Act Referrals		
Environment Agency North East Region	January-2006	Quarterly
Registered Radioactive Substances		
Environment Agency North East Region	January-2006	Quarterly
River Quality		
Environment Agency Head Office	November-2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency Head Office	February-2006	Annually
River Quality Chemistry Sampling Points		
Environment Agency Head Office	January-2006	Annually
Water Abstractions		
Environment Agency North East Region	January-2006	Quarterly
Groundwater Vulnerability		
Environment Agency Head Office	January-1999	Not Applicable
Drift Deposits		
Environment Agency Head Office	January-1999	Not Applicable
Source Protection Zones		
Environment Agency Head Office	April-2005	Variable
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency Head Office	September-2005	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency Head Office	September-2005	Quarterly

Data Type	Version	Update Cycle
Agency & Hydrological		
Areas Benefiting from Flood Defences Environment Agency Head Office	September-2005	Quarterly
Flood Water Storage Areas Environment Agency Head Office	September-2005	Quarterly
Flood Defences Environment Agency Head Office	September-2005	Quarterly
River Flood Data (Scotland) Centre for Ecology and Hydrology	September-1999	Not Applicable
Waste		
BGS Recorded Landfill Sites British Geological Survey National Geoscience Information Service	June-1996	Not Applicable
Integrated Pollution Control Registered Waste Sites Environment Agency North East Region	January-2006	Quarterly
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region Ridings Area	January-2006	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region Ridings Area	January-2006	Quarterly
Local Authority Landfill Coverage Barnsley Metropolitan Borough Council Environmental Health and Trading Standards Doncaster Metropolitan Borough Council Environmental Services	May-2000 May-2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Barnsley Metropolitan Borough Council Environmental Health and Trading Standards Doncaster Metropolitan Borough Council Environmental Services	February-2005 February-2005	Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North East Region Ridings Area	March-2003	Variable
Registered Waste Transfer Sites Environment Agency - North East Region Ridings Area	March-2003	Variable
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region Ridings Area	March-2003	Variable

Data Type	Version	Update Cycle
Hazardous Substances		
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September-2005	Variable
Explosive Sites Health and Safety Executive	March-2006	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November-2000	Not Applicable
Planning Hazardous Substance Consents Doncaster Metropolitan Borough Council Barnsley Metropolitan Borough Council Planning Department	August-2005 December-2005	Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Enforcements Doncaster Metropolitan Borough Council Barnsley Metropolitan Borough Council Planning Department	August-2005 December-2005	Annual Rolling Update Annual Rolling Update

Data Type	Version	Update Cycle
Geological		
BGS Boreholes British Geological Survey National Geoscience Information Service	April-2006	Quarterly
BGS Recorded Mineral Sites British Geological Survey National Geoscience Information Service	September-2005	Bi-Annually
BGS 1:625,000 Solid Geology British Geological Survey National Geoscience Information Service	August-1996	Not Applicable
Brine Compensation Areas Cheshire Brine Subsidence Compensation Board	November-2002	As notified
Coal Mining Affected Areas The Coal Authority Mining Report Service	January-2006	As notified
Shallow Mining Hazards British Geological Survey National Geoscience Information Service	August-2002	Variable
Potential for Collapsible Ground Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey National Geoscience Information Service	November-2005	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey National Geoscience Information Service	May-2005	Annually
Mining Instability Ove Arup & Partners	October-2000	Not Applicable
Natural and Mining Cavities Peter Brett Associates	October-2001	Variable
Radon Affected Areas Health Protection Agency	January-2003	Not Applicable
Radon Protection Measures British Geological Survey National Geoscience Information Service	August-2002	Variable
Industrial Land Use		
Contemporary Trade Directory Entries Thomson Directories	February-2006	Bi-Annually
Fuel Station Entries Catalist Ltd (Fuel Station Data)	March-2006	Quarterly

Data Type	Version	Update Cycle
Sensitive Land Uses		
Areas of Adopted Green Belt		
Barnsley Metropolitan Borough Council Planning Department	December-2000	As notified
Wakefield City Metropolitan District Council	January-2003	As notified
Doncaster Metropolitan Borough Council	July-1998	As notified
Rotherham Metropolitan Borough Council	June-1999	As notified
Areas of Unadopted Green Belt		
Barnsley Metropolitan Borough Council Planning Department	December-2000	As notified
Doncaster Metropolitan Borough Council	July-1998	As notified
Areas of Outstanding Natural Beauty		
The Countryside Agency	October-2004	Annually
Environmentally Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December-2004	Annually
Forest Parks		
Forestry Commission	April-1997	Not Applicable
Local Nature Reserves		
Barnsley Metropolitan Borough Council Planning Department	September-1999	Variable
Doncaster Metropolitan Borough Council	September-1999	Variable
Marine Nature Reserves		
English Nature	December-2004	Annually
National Nature Reserves		
English Nature	December-2004	Annually
National Parks		
The Countryside Agency	October-2004	Annually
Nitrate Sensitive Areas		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December-2003	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	March-2005	Annually
Ramsar Sites		
English Nature	December-2004	Annually
Sites of Special Scientific Interest		
English Nature	December-2004	Annually
Special Areas of Conservation		
English Nature	December-2004	Annually
Special Protection Areas		
English Nature	December-2004	Annually

Some of the organisations who provide data which is used within the report

Ordnance Survey	 Licensed Partner
Environment Agency	 Environment Agency
Scottish Environment Protection Agency	 SEPA Scottish Environment Protection Agency
The Coal Authority	THE COAL AUTHORITY
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Countryside Council for Wales	 CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE 
English Nature Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, English Nature who retain the copyright and Intellectual Property Rights for the data	 ENGLISH NATURE
Health Protection Agency	
Ove Arup The Data provided above was obtained on Licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The information and data supplied in the product are derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.	ARUP
Peter Brett Associates The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.	

Contact Name and Address

1	Barnsley Metropolitan Borough Council Environmental Health and Trading Standards Central Offices Kendray Street Barnsley South Yorkshire S70 2TN www.barnsley.gov.uk	Telephone 01226 770770 Fax 01226 772599
2	Environment Agency National Customer Contact Centre (NCCC) PO Box 544 Templeborough Rotherham S60 1BY enquiries@environment-agency.gov.uk	Telephone 08708 506 506
3	Doncaster Metropolitan Borough Council Environmental Services Floor 3 Council House College Road Doncaster South Yorkshire DN1 1RN www.doncaster.gov.uk	Telephone 01302 734444 Fax 01302 734949
4	British Geological Survey Enquiry Service British Geological Survey Kingsley Dunham Centre Keyworth Nottingham Nottinghamshire NG12 5GG enquiries@bgs.ac.uk www.bgs.ac.uk	Telephone 0115 936 3143 Fax 0115 936 3276
5	The Coal Authority Mining Report Service 200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG thecoalauthority@coal.gov.uk	Telephone 0845 7626848

Contact Name and Address

6	Health Protection Agency Chilton Didcot Oxfordshire OX11 0RQ	Telephone 01235 831600 Fax 01235 833891
7	Barnsley Metropolitan Borough Council Planning Department Central Offices Kendray Street Barnsley South Yorkshire S70 2TN www.barnsley.gov.uk	Telephone 01226 770770 Fax 01226 772599
8	Doncaster Metropolitan Borough Council Danum House St Sepulchre Gate Doncaster South Yorkshire DN1 1UB www.doncaster.gov.uk	Telephone 01302 734854 Fax 01302 734949
9	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings Otley Road Lawnswood Leeds West Yorkshire LS16 5QT	Telephone 0113 2613333 Fax 0113 230 0879
	Catalist Ltd (Fuel Station Data) Richmond House 22 Richmond Hill Clifton Bristol Avon BS8 1BA Mark@catalist-uk.com	Telephone 0117 923 7113 Fax 0117 923 7166

Please note that the Environment Agency/SEPA have a charging policy for enquiries


**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

Borehole Records Order Form

Name:	Your Ref/Order no:
Company:	Our Ref: ISGR/
Address:	Tel: Fax:
Postcode:	

Quarter Sheet (eg. SE5ONE)	Number (eg. 21)	Suffix (if given) (eg. A-Z)	Name (eg. Bentley Village Sewer TP 1)

Please note: More than 10 records can be ordered, but it is advisable to discuss your requirements first with NGIS staff, as interpreted geological reports are also available.

RESPONSE TIMES MAY VARY DUE TO CUSTOMER DEMAND AND STAFF AVAILABILITY

Level of Service: (Please tick)

☐ **Standard Service** (variable within 5 days)

☐ **Premium Service** (24 hour response, £30 additional charge)

Delivery Method: (Please tick) ☐ **Post** ☐ **Special Delivery £4.25** ☐ **Fax 50p (per sheet)** ☐ **Digital CD £2 (per CD)** ☐

Borehole unit price is £13 + VAT, Minimum charge £26 + VAT (includes 1st class postage).

Special Requirements or comments:

Please return form to: Records & Data Enquiries, British Geological Survey, Keyworth, Nottingham NG12 5GG.
 Tel: 01159363143 Fax: 01159363276 E-mail: enquiries@bgs.ac.uk

LANDMARK TERMS AND CONDITIONS

Definitions

"Account" means the credit account established by a Member with Landmark.

"Agreement" means the agreement between Ourselves created by Your acceptance of these Terms.

"Authorised Reseller" means an agent or reseller of Landmark whom Landmark has duly appointed to resell its Reports and Services.

"Client" means the individual or organisation to whom You provide professional services and/or Your professional advisors where applicable.

"Content" means any data, computing and information services and software, and other content and documentation or support materials and updates included in and/or supplied by or through the Websites, in Reports or Services or in any other way by Landmark and shall include Landmark developed and Third Party Content.

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"Intellectual Property Rights" means all forms of intellectual property or protective rights recognised in law.

"Member" means the person, firm or organisation who establishes and/or uses the Account.

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"Property Site" means a land site on which a Member requests Landmark provide either a Report or any other Service.

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References to "You/Your/Yourself" refer to the contracting party who places an Order with Landmark and for whom the Services are to be provided by Landmark.

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- If the person communicating with Landmark is an Authorised Reseller, they must ensure that You agree to these Terms.
- The headings in these Terms are for convenience only and shall not affect the meaning or interpretation of any part of these Terms.
- We may modify these Terms, and may discontinue or revise any or all other aspects of the Services at our sole discretion, with immediate effect and without prior notice. Any amendment or variation to these Terms shall be posted on our Websites. Continued use of the Services by You shall be deemed an acceptance by You to be bound by any such amendments to the Terms.
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- The information and data supplied in the Services are derived from publicly available records and other third party sources and Landmark does not warrant the accuracy or completeness of such information or data; and
- The information and data supplied in the Services are

derived solely from those sources specifically cited in the Report Landmark does not claim that these sources represent an exhaustive or comprehensive list of all sources that might be consulted; and

- Landmark does not guarantee that all past or current land uses or features will be identified in the Report; and
 - The Services provided by Landmark are professional business to business services and not intended for use or interpretation by persons other than professional persons skilled in the use of property and environmental information; and
 - Landmark shall not be responsible for error or corruption in the Report resulting from inaccuracy or omission in primary or secondary information and data, inaccurate processing of information and data by third parties, computer malfunction or corruption of data whilst in the course of conversion, geo-coding, processing by computer or electronic means, or in the course of transmission by telephone or other communication link, or printing.
 - Landmark reserves the right, without limitation, to change the Reports or Services on offer at any time.
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- You acknowledge that all Intellectual Property Rights in the Report and Services are and shall remain owned by either Landmark or our Suppliers and nothing in these Terms purports to transfer, assign or grant any rights to You in respect of the Intellectual Property Rights.
 - Subject to clause 6.f, You are entitled to make the following use of the Services and Reports subject always to these Terms and You may, without further charge, make the Report or Services available to;
 - any person who purchases the whole of the Property Site,
 - any person who provides funding secured on the whole of the Property Site,
 - any person for whom You act in a professional or commercial capacity, and
 - any person who acts for You in a professional or commercial capacity.

Accordingly Landmark shall have the same duties and obligations to those persons in respect of the Services as it has to You.

- Each of those persons referred to in Clause 3.b. shall have the benefit and the burden of Your rights and obligations under these Terms. The limitations of Landmark's liability as set out in Clause 6 shall apply.
- The Report is to be used solely for the benefit of You and Your Client and such persons as are set out in Clause 3.b. and Landmark excludes all liability to all other persons unless Landmark has expressly agreed in writing to the assignment of the benefit of the Report and has been paid Landmark's reasonable fees for so doing.
- All parties given access to the Services agree that they will treat as strictly private and confidential the Services and all information which they obtain from the Services and shall restrict any disclosure to employees or professional advisors to enable the relevant party to conduct its internal business. The requirement in this clause to treat the Services as confidential shall include a requirement to maintain adequate security measures to safeguard the Services from unauthorised access, use or copying.
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 - remove, alter or in any way change any trademark or proprietary marking in any element of the Services and You acknowledge the ownership of the Content is as per this Clause, where such Content is incorporated or used into Your own documents, reports, systems or services whether or not these are supplied to any third party.
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- You hereby agree to fully indemnify Landmark against any claim losses or other damages suffered by Landmark as a result any breach by any recipient of the Services of these Terms.
 - You agree that You will comply with any reasonable instructions that We may give from time to time with regard to the use of the Intellectual Property Rights, including but not limited to acknowledging that the Services and Reports are confidential to You, Your Client or the persons set out in Clause 3.b.
 - The mapping contained in any Services is protected by Crown Copyright and must not be used for any purpose outside the context of the Services or as specifically provided by these Terms.
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- Landmark may grant You a credit limit in order to allow You to transact with it or set up an Account and reserves the right to withdraw any such credit limit at any time without prior notice.
 - You are fully responsible for all charges that accumulate on Your Account.
 - VAT at the prevailing rate shall be payable in addition to the Landmark Fees. You shall pay any other applicable indirect taxes related to Your use of the Services.
 - An individual or a monthly invoice showing all Orders created will be generated subject to these Terms. You will pay the Landmark Fees at the rates set out in Landmark's or its Authorised Reseller's invoice. The Landmark Fees are payable in full within 28 days without deduction, counterclaim or set off. You acknowledge that time is of the essence with respect to the payment of such invoices. Non-payment of Landmark Fees may, at Our sole discretion result in Landmark terminating or limiting the use of Your Account and its provision of Services to You. Landmark reserve the right to amend the Landmark Fees from time to time and the Services will be charged at the Landmark Fee applicable at the date on which the Service is ordered.
 - We may charge interest on late payment at a rate equal to 8% per annum above the base lending rate of National Westminster Bank plc.
 - Landmark or its Authorised Reseller shall not be obliged to invoice any party other than You for the provision of Services, but where Landmark or its Authorised Reseller does so invoice any third party at Your request, and such invoice is not accepted or remains unpaid, Landmark or its Authorised Reseller shall have the option at any time to cancel such invoice and invoice You direct for such Services. Where Your order comprises a number of Services or severable elements within any one or more Services, any failure by Landmark or its Authorised Reseller to provide an element or elements of the Services shall not prejudice Landmark's or its Authorised Reseller's ability to require payment in respect of the Services delivered to You
- ### 5. Termination

- Landmark may suspend or terminate Your rights under these Terms without any liability to You with immediate effect if at any time:-
 - You fail to make any payment due in accordance with Clause 4;
 - You repeatedly breach or commit or cause to be committed any material breach of these Terms; or
 - You commit a breach and You fail to remedy the breach within 7 days of receipt of a written notice to do so Landmark may remedy the breach and recover the costs thereof from You; or
 - You commit an act of bankruptcy or insolvency, are unable to pay Your debts as or when they fall due or make any composition or arrangement with Your creditors, or go into liquidation whether voluntary or compulsory, or if any order is made or a resolution is passed for Your winding up (except for the purpose of a solvent amalgamation or reconstruction), or if You cease or prepare to cease trading, or if You suffer the appointment of a receiver, administrative receiver, administrator or similar officer over the whole or part of any of Your assets.
 - If Your rights are terminated under this Clause and You have made an advance payment We will refund You a reasonable proportion of the balance as determined by Us in relation to the value of Services previously purchased.
 - We may suspend the Agreement between You and Landmark for an indefinite period without notice and at any time if in Our opinion You are in breach of any of the provisions of these Terms.
- ### 6. Liability
- We provide warranties and accept liability only to the extent stated in this Clause 6.
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- c. As most of the information contained in the Services is provided to Landmark by others, Landmark cannot control its accuracy or completeness, nor is it within the scope of Landmark's Services to check the information on the ground. Accordingly, subject to clause 6b, Landmark will only be liable to You for any loss or damage caused by its negligence or willful default and neither Landmark nor any person providing information contained in any Services shall in any other circumstances be liable for any inaccuracies, faults or omissions in the Services nor shall Landmark have any liability if the Services are used otherwise than in accordance with these Terms.
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- e. In any event, and notwithstanding anything contained in these Terms, Landmark's liability in contract, tort (including negligence or breach of statutory duty) or otherwise howsoever arising by reason or in connection with this Contract (except in relation to death or personal injury) shall be limited to an aggregate amount not exceeding £1 million if the complaint is in relation to a Report on residential property and an amount not exceeding £10 million in respect of any other Report or Service purchased from Landmark except in so far as Landmark will not be liable for any defect, failure or omission relating to Services that is not notified to Landmark within six months of the date of the issue becoming apparent and in any event, within one year of the date of the Report if the complaint is in relation to a Report on residential property and within six years of the date of the Report in respect of any other Report or Service. Where any claim relates to either a part of the Services that is not chargeable or if You have been in breach of any part of these Terms Landmark's liability shall be limited to £1,000
- f. No person may rely on the Report more than 12 months after its original date.
- g. You acknowledge that:-
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- ii. Landmark's only obligation is to exercise the reasonable skill and care in providing environmental property risk information to persons acting in a professional or commercial capacity and You hereby acknowledge that You are such a person;
- iii. no physical inspection of the Property Site reported on is carried out as part of any Services offered by Landmark and as such We do not warrant that all land uses or features whether past or current will be identified in the Services and the Services do not include any information relating to the actual state or condition of any Property Site nor should they be used or taken to indicate or exclude actual fitness or unfitness of a Property Site for any particular purpose nor should it be relied upon for determining saleability or value or used as a substitute for any physical investigation or inspection;
- iv. You should carefully inspect the Property Site, and take any other advice that would be reasonably prudent to do prior to making any decision about the Property Site to which any Report or Service relates and not rely exclusively on the Report or any other Landmark Services in terms of valuing the Property Site;
- v. Landmark will not be held liable in any way if a Report on residential property is used for commercial property or more than the one residential property for which it was ordered;

- vi. the Services have not been prepared to meet Your or anyone else's individual requirements; that You assume the entire risk as to the suitability of the Services and waive any claim of detrimental reliance upon the same; and You confirm You are solely responsible for the selection or omission of any specific part of the Content;
- vii. You shall be solely responsible for maintaining the confidentiality of Your passwords (including Your Designated Users' password(s)) and You will notify us immediately that You become aware of any unauthorised access to, use or copying of any part of Services or document or report derived or downloaded there from by anyone;
- viii. You must observe and comply with all applicable regulations and legislation;
- ix. We offer no warranty for the performance of any linked internet service not operated by Us;
- x. You will on using the Services make a reasonable inspection of any results to satisfy Yourself that there are no defects or failures. In the event that there is a material defect You will notify us in writing of such defect within seven days of its discovery;
- xi. without prejudice to any restrictions set out in these Terms, if in the course of Your business or otherwise You use for the benefit of or convey to any third party any part of the Website, Content, or Services You must make such third parties aware of the limitations, obligations and acknowledgements contained herein;
- xii. any support or assistance provided to You in connection with these Terms is at Your risk;
- xiii. the information contained in the Services has been extracted from various Crown Copyright and other published sources, and accordingly, Landmark does not accept any responsibility, and expressly disclaims all liability, for any errors, omissions or misstatements, or for any loss occasioned to any person acting, or refraining from action, as a result of, or in reliance upon, the information contained in these Services;
- h. All liability for any insurance products purchased by You rests solely with the insurer. Landmark does not endorse any particular product or insurer and no information contained within the Services should be deemed to imply otherwise. You acknowledge that if You Order any such insurance Landmark will deem such as Your consent to forward a copy of the Report to the insurers. Where such policy is purchased, all liability remains with the insurers and You are entirely responsible for ensuring that the insurance policy offered is suitable for Your needs and should seek independent advice. Landmark does not guarantee that an insurance policy will be available on a Property Site. All decisions with regard to the offer of insurance policies for any premises will be made solely at the discretion of the insurers and Landmark accepts no liability in this regard. The provision of a Report does not constitute any indication by Landmark that insurance will be available on the property.
- i. If Landmark provides You with any additional service obtained from a third party, including but not limited to any professional opinion, interpretation or conclusion, risk assessment or environmental report or search carried out in relation to a Report on Your Property Site, Landmark will not be liable in any way for any information contained therein or any issues arising out of the provision of those additional services to You or Your Client. Landmark will be deemed to have acted as an agent in these circumstances and the supply of these additional services will be governed by the terms and conditions of those Third Parties. For the avoidance of doubt, those parties providing assessments or professional opinions on Landmark products include RPS Plc & Wilbourn Associates Limited. Copies of their terms and conditions are available on request from Landmark.
- j. Landmark has undertaken the Services for use only by the persons referred to at clause 3b and for no other purpose whatsoever and the Services should not be relied upon by any other third party. Landmark can accept no responsibility and will not be liable to any third party for any loss caused as a result of reliance upon the Services. Any third party relying on the Services does so entirely at its own risk, including without limitation any insurers referred to in this clause 6. Recipients of the Services are to rely on their own skill and judgment in determining the suitability of the Services for their own purpose and use and are advised to use the Services with caution and not base important business decisions solely on the same. Landmark Services are merely one of the tools available for the assessment of environmental, geological or other property or land-related risks and should be used in conjunction with other recognised methods of evaluation.

- k. Time shall not be of the essence with respect to the provision of the Services.

7. Events Beyond Our Control

You acknowledge that Landmark shall not be liable for any delay, interruption or failure in the provision of the Services which are caused or contributed to by any circumstance which is outside our reasonable control including but not limited to, lack of power, telecommunications failure or overload, computer malfunction, inaccurate processing of data, or delays in receiving, loading or checking data, corruption of data whilst in the course of conversion, geo-coding, processing by computer in the course of electronic communication, or printing.

8. Severability

If any provision of these Terms are found by either a court or other competent authority to be void, invalid, illegal or unenforceable, that provision shall be deemed to be deleted from these Terms and never to have formed part of these Terms and the remaining provisions shall continue in full force and effect.

9. Governing Law

This Agreement shall be governed by and construed in accordance with English law and each party agrees irrevocably submit to the exclusive jurisdiction of the English courts as regards any claim or matter arising under this Agreement. If any dispute arises out of or in connection with this agreement (a "Dispute") the parties undertake that, prior to the commencement of Court proceedings, they will seek to have the Dispute resolved amicably by use of an alternative dispute resolution procedure acceptable to both parties with the assistance of the Centre for Dispute Resolution (CEDR) if required, by written notice initiating that procedure. If the Dispute has not been resolved to the satisfaction of either party within 60 days of initiation of the procedure or if either party fails or refuses to participate in or withdraws from participating in the procedure then either party may refer the Dispute to the Court.

10. Entire Agreement

- a. These Terms, together with the prices and delivery details set out on our Websites and Your Order comprise the whole of our agreement relating to the supply of Services to You by Landmark. No prior stipulation, agreement, promotional material or statement whether written or oral made by any sales or other person or representative on our behalf should be understood as a variation of these Terms or as an authorised representation about the nature or quality of any Services offered for sale by us. Save for fraud or misrepresentation, Landmark shall have no liability for any such representation being untrue or misleading.
- b. These Terms shall prevail at all times to the exclusion of all other terms and conditions including any terms and conditions which You may purport to apply even if such other provisions are submitted in a later document or purport to exclude or override these Terms and neither the course of conduct between parties nor trade practice shall act to modify these Terms.

11. General

- a. You shall not without our prior written consent assign, or transfer in any way the benefit of these Terms in whole or in part or any of Your obligations under these Terms save as provided by Clause 3.b. Your right to use the Services, operate Your Account or to designate users is not transferable
- b. Landmark may assign its rights and obligations under these Terms without prior notice or any limitation.
- c. We may authorise or allow our contractors and other third parties to provide to Us and/or to You services necessary or related to the Services and to perform Our obligations and exercise Our rights under these Terms, which may include collecting payment on Our behalf.
- d. No waiver on our part to exercise, and no delay in exercising, any right, power or provision hereunder shall operate as a waiver thereof, nor shall any single or partial exercise of any right, power or provision hereunder preclude the exercise of that or any other right, power or provision.
- e. References in these Terms to any legislation shall be construed as references to the same as amended or re-enacted from time to time and shall include subordinate legislation or regulations.
- f. Unless otherwise stated in these Terms, all notices from You to Landmark must be in writing and sent to the Landmark registered office (or in the case of an Authorised Reseller, to its registered office address) and all notices from Us to You will be displayed on our Websites from time to time.
- g. A person who is not a party to any contract made pursuant to these Terms shall have no right under the Contract (Right of Third Parties) Act 1999 to enforce any terms of such contract and Landmark shall not be liable to any such third party in respect of any Services supplied.
- h. Landmark reserves the right to monitor or record telephone calls for training purposes.



Envirocheck®

A Landmark® product

KEY TO THE LEGEND DATABASE

General

- Specified Site
- Bearing Reference Point
- Buffer (1000m)
- Reference Number
- Several of Type at Location

Waste

- Point Location of BGS Recorded Landfill Site
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facilities (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Point Location of Local Authority Recorded Landfill Site
- Local Authority Recorded Landfill Site
- Registered Landfill Site (Polygon)

Agency and Hydrological

- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Point Location of Contaminated Land Register Entry or Notice
- 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
- Pollution Incident to Controlled Waters
- Substantiated Pollution Incident Register
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Quality Sampling Point
- Water Abstraction
- Water Industry Act Referral
- Point Location of Registered Landfill Site
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Point Location of Registered Waste Transfer Site
- Registered Waste Transfer Site
- Point Location of Registered Waste Treatment or Disposal Site
- Registered Waste Treatment or Disposal Site

Hazardous Substances

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

Geological

- BGS Borehole
- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry



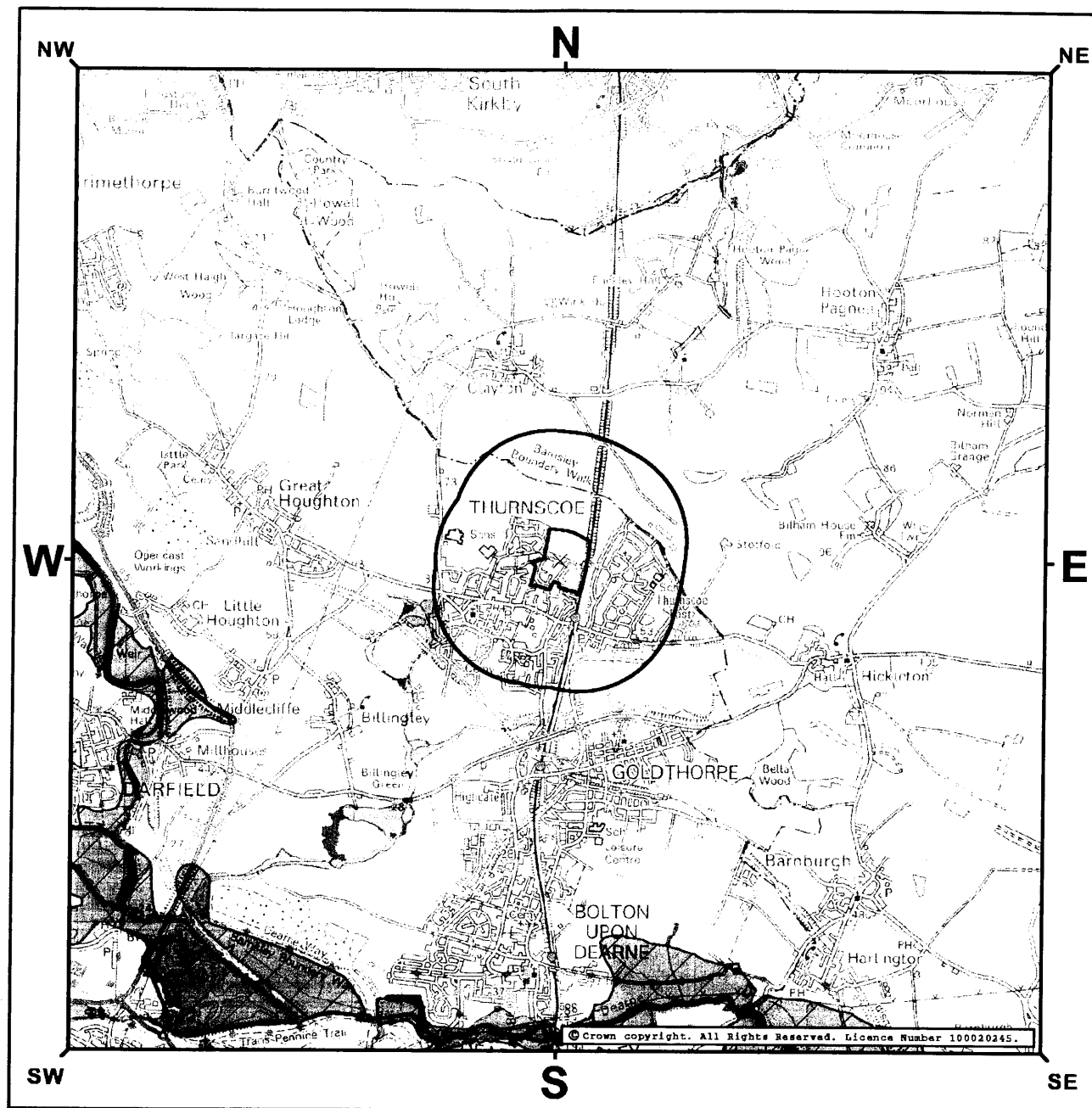
Environment
Agency



British
Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL







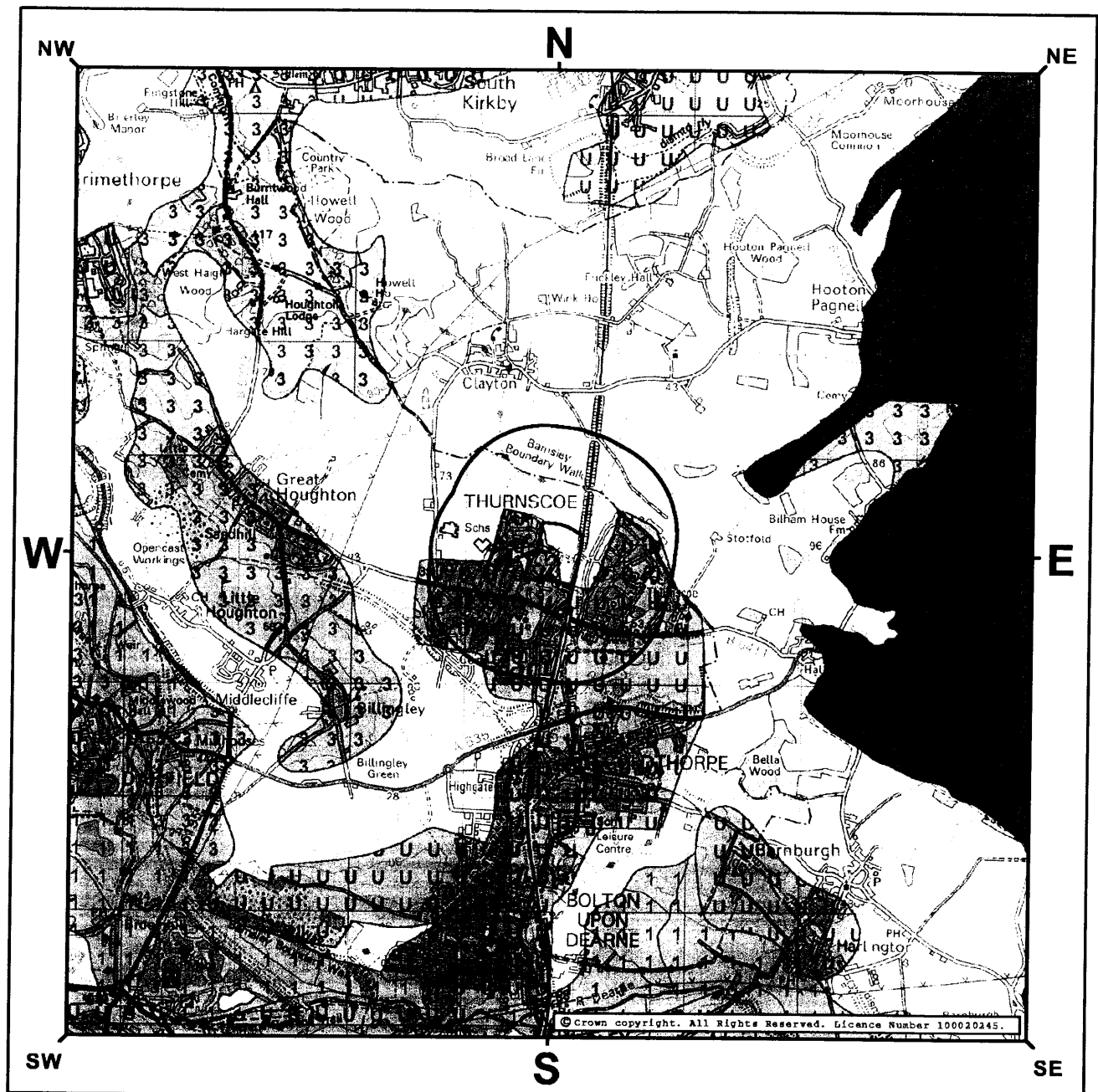
KEY

General

- ◻ Specified Site
- ✕ Bearing Reference Point
- ◻ Buffer

Agency & Hydrological Environment Agency

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



KEY

General

- Specified Site
- Bearing Reference Point
- Buffer

Groundwater Vulnerability

Geological Classes

Major Aquifer
(High Permeable)

Minor Aquifer
(Variable Permeable)

Non Aquifer
(Negligibly Permeable)

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

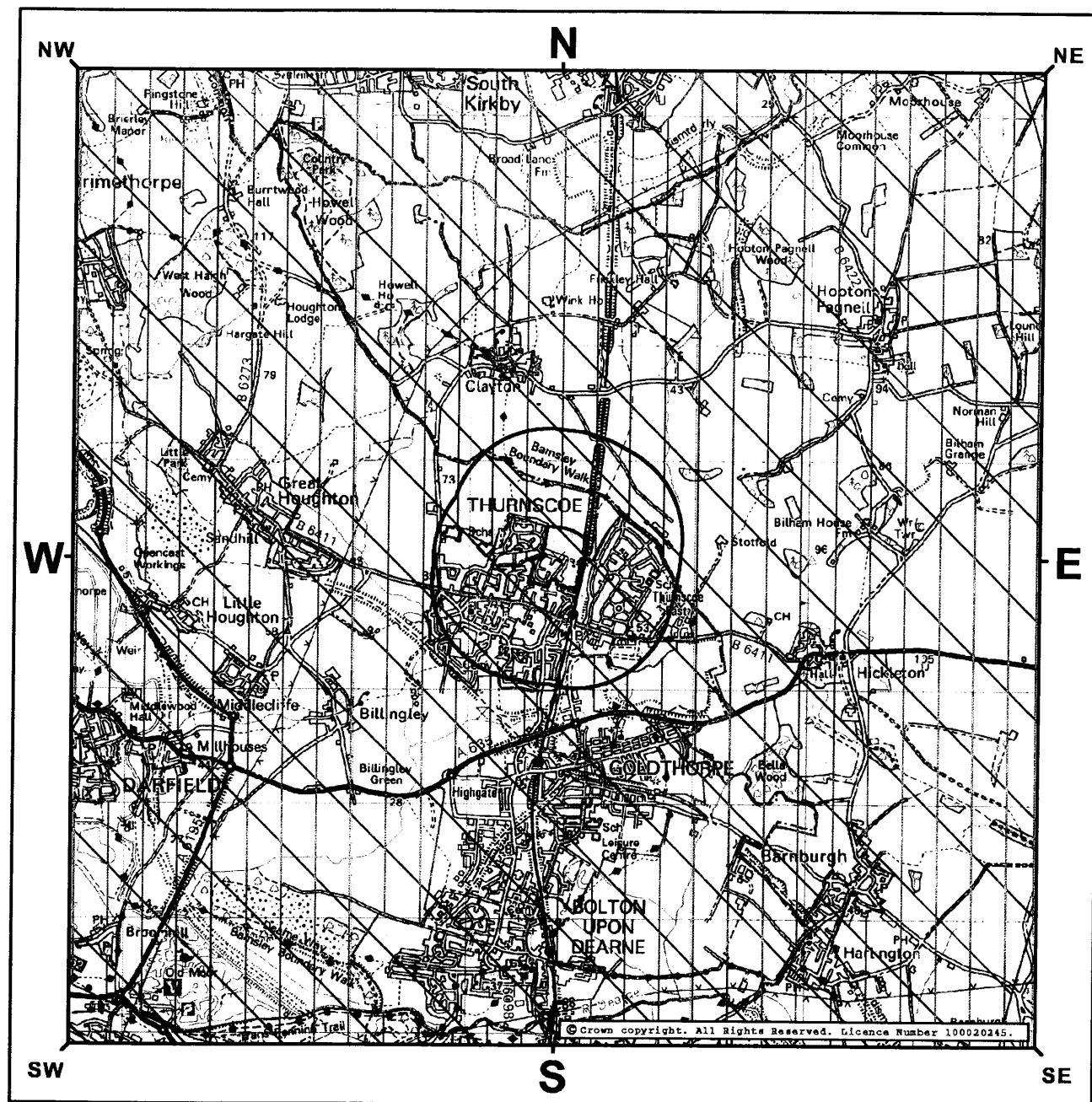
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Drift Deposit



KEY

General

○ Specified Site

× Bearing Reference Point

○ Buffer

Sensitive Land Uses

□ Area of Adopted Green Belt

□ Area of Unadopted Green Belt

□ Area of Outstanding Natural Beauty

□ Environmentally Sensitive Area

□ Forest Park

□ Local Nature Reserve

□ Marine Nature Reserve

□ National Nature Reserve

□ National Park

□ National Scenic Area

□ Nitrate Sensitive Area

□ Nitrate Vulnerable Zone

□ Ramsar Site

□ Site of Special Scientific Interest

□ Special Area of Conservation

□ Special Protection Area