

**Cliff Close, Barnsley
Desk Study Report
Yorkshire Housing**

Solmek Report Number S120812

August 2012

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Cliff Close, Barnsley

Desk Study Report

Contract Number: S120812
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Status	Date	Prepared by	Checked by
Final	August 2012	P Finnimore Geotechnical Engineers	D Simpson Principal Geotechnical Engineer

Cliff Close, Barnsley

Desk Study Report

1 INTRODUCTION AND SCOPE OF WORKS

- 1.1 Solmek were instructed by Bernard Williams Associates on behalf of Yorkshire Housing to undertake a desk study on a parcel of land just off Cliff Close, Brierley, Barnsley, S72 9HR.
- 1.2 The following steps may be required in the investigation and remediation of potentially contaminated land:
- Phase 1: Desk Study
 - Phase 2: Intrusive Investigation
 - Phase 3: Remediation Statement
 - Phase 4: Validation Reports
- 1.3 Phases 1 and 2 are generally required in the redevelopment of most sites. Phases 3 and 4 are subject to the findings of the initial stages. This report represents Phase 1 of the site investigation.
- 1.4 The objectives and planned outcomes of the desk study are:
- to assess the impact of local authority guidance on the investigation
 - to identify existing features on and near the site
 - to evaluate the historical and environmental setting of the site
 - to assess the likelihood of finding contamination, its nature and extent
 - to identify associated key contaminants
 - to identify sensitive receptors and define source – pathway – receptor relationships (conceptual model)
 - to identify relevant geotechnical parameters
 - to assess any potential sources of ground gas
 - to assess the potential risk of shallow mining
- 1.5 This assessment has been undertaken with due regard to contaminated land guidance, issued by the Royal Institution of Chartered Surveyors (RICS) and BS 10175: 2001, *"Code of Practice for the Investigation of Potentially Contaminated Land"*. Selected elements of BS 5930: 1999 *"Code of Practice for Site Investigations"* have also been included.

2 REGULATORY AND PLANNING CONTEXT

- 2.1 The Town and Country Planning Regime is the principal means by which contamination is dealt with by the Local Authority. Contaminated land is a material planning consideration and contamination assessments are required on land that may be potentially contaminated.
- 2.2 The Buildings Regulations (2000) also state that *"precautions shall be taken to avoid danger to health and safety caused by substances found on or in the ground covered by the building"*. A site investigation is frequently required to satisfy the requirements of building control.

3 SITE DESCRIPTION

- 3.1 The preliminary site inspection, as recommended in BS 5930 and BS 10175, was undertaken on Tuesday 6th August 2012. Location maps and selected plates are presented in Appendix 1. The site is centred at the approximate Ordnance Survey Co-ordinates 440800E, 411100N and covers an area of approximately 0.31ha.
- 3.2 The site consists of a piece of land located off Cliff Lane which is surrounded by low fencing. The land is covered with unmanaged grass, bushes and locally immature trees.
- 3.3 The surrounding area consists of residential houses with recently constructed houses located to the west of the site. There were no major visual signs of contamination noted during the site walkover.

4 SITE HISTORY

- 4.1 In order to determine the history of the site, previous editions of Historical Maps and Ordnance Survey Plans were inspected. Selected map extracts are presented in Appendix 2.
- 4.2 Table 1 presents a summary of the history of the area which includes plots from 1854 to 2012. The summary focuses on the historical land uses and changes relevant to the site and the proposed end use. Measurements are taken from the centre of the site and all distances quoted are approximate.

OS MAP	SCALE	ON SITE FEATURES	OFF SITE FEATURES
1854	1:10,560	The north half of the site is developed with an "L" shaped building with a road present along the western boundary of the site.	The village of Brierley is located 100m east with Shafon Colliery located 950m west and Brierley Quarry 200m to the west of the site. A building is located immediately west of the site.
1894	1:2,500	The building covers the northwest corner of the site, a pump is also noted within the plot.	Methodist Chapel has been constructed 50m west and a smithy is located 110m north of site.
1906	1:2,500	Footprint of the building has changed and an additional building has been constructed immediately south of the building.	Some houses have been constructed 200m northwest of the site.
1907	1:10,560	No changes.	Shafon Colliery has closed and a railway line is present 700m north of site.
1919	1:2,500	No apparent changes.	Houses have been constructed immediately north of the site. Brierley Colliery is operating 200m south of site.
1933	1:10,560	No apparent changes.	Sewage Works have been constructed 500m west of the site.
1948	1:10,560	No apparent changes.	No significant changes.
1955-56	1:10,000	No apparent changes.	Brierley Colliery has labelled as disused.
1962	1:2,500	Area is labelled as an allotment gardens and some small building are located along the northern and southern boundary.	A building has been constructed immediately south and houses have been constructed 230m west of the site.

1976	1:2,500	The small buildings have been demolished and a large "E" shaped building has been constructed, this extends beyond the east of site.	Houses have been constructed immediately south and west of the site.
1981-84	1:10,000	Original building to the northwest corner has been demolished.	Railway line to the north has been dismantled.
1993	1:2,500	Development on the site is named "Grange House"	No significant development.
2006	1:10,000	No apparent changes.	Former site of Brierley Colliery has been developed into houses.
2012	1:10,000	Grange House has been demolished and the site has been cleared	Houses have been constructed immediately east of the site.
TABLE 1: SUMMARY OF THE SITE HISTORY			

- 4.3 The site was initially developed with an "L" shaped building which possibly agricultural, this was located in the northwest corner of the site and until it was demolished in 1981. Between 1962 and 1976 the remainder of the site was used as allotments. The site was developed with Grange House, which was an "E" shaped building in 1976 and this building extended beyond the east of the site. The building was demolished and the entire site was cleared in 2012.
- 4.4 The earliest maps show the village of Brierley located 100m east of the site. The surrounding area has seen little industrial development the most significant was Brierley Colliery which was located 200m south between 1919 and 1955, the site is now occupied with housing. The only development noted in the surrounding area was housing which were constructed immediately north in 1919, immediately south and west in 1976 and immediately east in 2012.

5 ENVIRONMENTAL CONTEXT

- 5.1 The services of Envirocheck were used to establish the pertinent environmental records relating to the site. This information, which is presented in Appendix 3, replaces much of the information traditionally provided by the Environment Agency. Selected relevant information is summarised as follows. Measurements are taken from the centre of the site and all distances quoted are approximate.

Landfill and Waste

- 5.2 The Envirocheck Report states that there are no known recorded landfill sites located within a 1km radius of the site.
- 5.3 There are no Licensed Waste Management Facilities located within a 850m radius of the site.

Regulated Industries

- 5.4 There are no Prosecutions Relating to Authorised Processes, Explosive Sites, Contaminated Land Register Entries, Local Authority Pollution and Control, Control of Major Accident Hazards Sites (COMAH), Registered Radioactive Substance, Substantiated Pollution Incident Register, Notification of Installations Handling Hazardous Substances (NIHHS) or Planning Hazardous Substance Enforcements or Consents within 900m of the site. .

Industrial Land Use

- 5.5 The Envirocheck Report identifies current industrial land use in relation to the site. There are no active entries within 200m of the site. The closest active entry refers to a JJ Electrical which is located 249m west of the site.
- 5.6 No Fuel Station entries are located within a 1km radius of the site.

Environmentally Sensitive Areas.

- 5.7 No entries are shown under the heading of Environmentally Sensitive Areas, National Parks, Nitrate Sensitive Areas, Sites of Special Scientific Interest (S.S.S.I.), Ramsar Site and Special Protection Area, or Areas of Outstanding Natural Beauty.
- 5.8 The report indicates that an Area of Adopted Green Belt is located 17m southwest of the site.
- 5.9 The site lies within a Nitrate Vulnerable Zone (NVZ).

6 GEOLOGY, GROUNDWATER & SURFACE WATER*Geology*

- 6.1 Inspection of British Geological Survey Sheet 87 Barnsley (1:50,000 Series: Solid and Drift Edition) was undertaken. The solid geology beneath the site is likely to comprise Brierley Rock of the Middle Coal Measures of the Upper Carboniferous. The drift deposits are likely to be relatively thin and to comprise of weathered sandstone, sandy clays or clayey sands.
- 6.2 There are no coal seams conjectured to outcrop in the vicinity of the site, The Brierley Coal Seam is shown to sub-crop 400m west of the site, and dip beneath the site.
- 6.3 The Envirocheck Report lists no BGS Recorded Mineral Sites located within a 250m radius of the site. The closest entry refers to a site named Brierley Colliery which extracted deep coal at a location 297m southeast of the site, however operations have now ceased.

Geological Hazards

- 6.4 The Envirocheck Report states that no risk is posed by running sand, shrinking and swelling clay, ground dissolution and compressible ground. A very low risk is given for collapsible ground and landslide ground stability hazards. For full details see the Envirocheck Report (Appendix 3).

Radon Risk

- 6.5 In accordance with the procedure described in BRE Publication BR211 *Radon: Guidance on Protective Measures for New Dwellings*, no radon protection measures are required for new buildings on the site as it lies in an area where less than 1% of homes are above the radon action level.

Mining Situation

- 6.6 The Envirocheck Report indicates that the site is located within an area which is affected by coal mining. A coal mining search report was sourced from David Bellis Consulting Surveyors dated, 10th August 2012 and is presented in Appendix 4. The report highlights that the site is situated in an area of sandstone over Middle Coal Measures, shales and mudstones.

- 6.7 The mining report indicates that there are four known worked coal seams below the site. The shallowest is named Shafton Coal Seam which is located at a depth of 295m subjacent to the site and has a cross section of 180cm.
- 6.8 In relation to opencast mining, the site is not within the boundary of an opencast mine where coal has been removed in the past, or within 200m of a currently operating opencast coal mine. No evidence of any coal mining related subsistence claims in relation to the property were noted within the past 10 years.
- 6.9 The mining report also highlights that there are possibly ancient shallow coal mining workings beneath the site for which no accurate plans or records which exist
- 6.10 The mining report concludes that it is unlikely that coal will be worked in the foreseeable future. For full details see the coal mining search report (Appendix 4).

Ground and Surface Water

- 6.11 The Envirocheck Report shows that the underlying solid geology beneath the site is classified as a **Secondary Aquifer A**. These are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.
- 6.12 The Envirocheck Report highlights that the soils of the site have a high leaching potential.
- 6.13 The Envirocheck Report lists the nearest surface water feature 366m south of the site.
- 6.14 The site does not lie in a Source Protection Zone.
- 6.15 The Envirocheck Report lists no active Discharge Consents within an 850m radius of the site. The closest active consent lies 860m west of the site and is operated by Fox Farm for a lank soakaway. Full details can be seen in the Envirocheck Report (Appendix 3).
- 6.16 The Envirocheck Report highlights that no water abstraction licences held within 1km of the site.

Flooding

- 6.17 The Envirocheck Report states that the site has not been affected by previous flooding events.
- 6.18 There are no areas benefiting from flood defences or flood water storage areas within 1km of site.

7 GEOTECHNICAL ASSESSMENT

Relict Foundations and Made Ground

- 7.1 The information revealed from the historical maps and the Envirocheck Report indicates that the site was once developed with a building associated with agriculture and then residential accommodation, however this was recently demolished. Although little demolition rubble was noted during the walkover made ground may still be present from the building. Made ground is expected to comprise construction waste such as brick, concrete, glass, ash, and possibly asbestos.
- 7.2 The client is advised to obtain full utility drawings for the site before commencing any ground works as good practice

Geotechnical Appraisal

- 7.3 The sites proposed end use is expected to be residential housing with car parking areas. From the initial evidence in the desk study, made ground is to cover the site. Underlying drift deposits are indicated as weathered sandstone rockhead (sands and gravels). Providing medium dense shallow sand or competent sandstone is proven then traditional strip footings may be appropriate, with deeper strips should made ground extend beyond 1.0m. However a full assessment cannot be made until a Phase 2: Site Investigation has been undertaken.

Excavations and Groundwater

- 7.4 Excavations should be easily achievable by means of a normal excavator through the natural deposits. A breaker will be required for areas of hard standing and if relict foundations are encountered.
- 7.5 Groundwater is unlikely to be encountered at shallow depths. However it should be noted that groundwater levels can be affected by rainfall and seasonal variations.

Mining

- 7.6 The report highlights that the site is situated in an area of sandstone over Middle Coal Measures, shales and mudstones.
- 7.7 The mining report indicates that there are four known worked coal seams below the site. The shallowest is named Shafton Coal Seam which is located at a depth of 295m subjacent to the site and has a cross section of 180cm. No evidence of any coal mining related subsistence claims in relation to the property were noted within the past 10 years.
- 7.8 The mining report also highlights that there are possibly ancient shallow coal mining workings beneath the site for which no accurate plans or records which exist.
- 7.9 The mining report concludes that it is unlikely that coal will be worked in the foreseeable future. For full details see the coal mining search report (Appendix 4).

8 CONTAMINATION ASSESSMENT

- 8.1 The historical maps and Envirocheck Report has revealed that the site has **probably** been exposed to contamination from construction and demolition former buildings. Made ground is expected to contain construction waste such as brick, concrete, glass and ash with the possibility of asbestos.

Development Proposals

- 8.2 The proposed development is for the construction of residential housing with parking and front and rear gardens.

Potential Hazards from Ground Gases

- 8.3 Ground gases such as carbon dioxide and methane can be classed as a form of contamination. Potential sources of ground gases include:
- Made Ground
 - Quarries, Infilled Clay Pits & Infilled Ponds
 - Underlying Natural Strata (alluvium, peat and chalk)
 - Petrol re-fuelling sites (which also includes Volatile Organic Compounds)
 - Landfill (on and off-site)
 - Coal measures

- 8.4 Based on historical map evidence and consideration of the sites environmental setting Table 2 shows a preliminary comparison of *consequence* against *probability* where ground gas is considered a potential threat to human health.

PRELIMINARY GROUND GAS ASSESSMENT		
Potential Sources	Potential Pathway	Receptor
Made Ground is expected from buildings. (CO ₂ and CH ₄)	Ingress and Accumulation into buildings from vertical and horizontal migration	Future residents of site will include adults and infants.
Site is located within a mining area (CO ₂ and CH ₄)	Ingress and Accumulation into buildings from vertical and horizontal migration	Construction workers (in particular utility workers).
Preliminary Comparison of Consequence versus Probability		
Probability	Classification	Justification
(Based on Table 8.1, CIRIA C665, 2007)	LIKELY	Site is located within a mining area.
Consequence	MEDIUM	Made ground is expected from the former building Grange House.
(Based on Table 8.2, CIRIA C665, 2007)		Development residential houses.
Consequence vs. Probability	Risk	Details
(Based on Table 8.3, CIRIA C665, 2007)	MODERATE RISK	It is possible that harm could arise to a designated receptor from an identified hazard, however, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.
		(Based on Table 8.4, CIRIA C665, 2007)
TABLE 2: POLLUTION LINKAGES - GROUND GAS		

- 8.5 Given the pollution linkages outlined above, it would be prudent to carry out full intrusive works to justify the above risk assumption; this would give the site a risk classification based on the recommendations given in CIRIA Report C665.

9 PHASE TWO – INTRUSIVE INVESTIGATION WORK

- 9.1 Based on the information collated in this desk study a Phase Two intrusive investigation is recommended. The investigation should comprise a series of boreholes, ideally within the footprint of the proposed buildings to investigate the nature of the superficial deposits underlying the site, the depth to rockhead (if encountered) and to carry out in-situ testing. It is also recommended it undertake CBR tests where areas of hard standing are proposed.
- 9.2 Representative samples of the made ground and natural strata encountered should be taken at regular intervals. It is recommended that selected samples of the made ground undergo a suite of chemical contamination testing. Selected natural ground samples should be subject to geotechnical testing. Testing requirements may vary depending on the thickness of the made ground encountered, the nature of the natural soils and the depth to rock head, if encountered.
- 9.3 Gas/groundwater monitoring pipes should be installed in at least three boreholes (in accordance with C665) to assess the shallow ground gas and water levels beneath the site.

We would advise a minimum of three visits initially and if high or variable concentrations of ground gases are recorded, an extended period of monitoring may be necessary.

- 9.4 Due to the uncertainty associated with ancient unrecorded workings under the site, it is recommended that a site investigation is carried out to determine if any shallow voided areas are present beneath the proposed development. This should comprise a series of three open hole rotary boreholes drilled to 20m depth to prove the presence, or otherwise of any shallow workings.
- 9.5 Site investigations are designed according to the type of development, the requirements of the client, and recommendations given in BS 5930 and BS 10175.

10 CONCEPTUAL MODEL AND RISK ASSESSMENT

- 10.1 The conceptual model (Table 3) collates the salient aspects of the site to form a model which should enable comparison after fieldwork and testing. This model identifies the potential pollution linkages that may influence the proposed development and geotechnical considerations.
- 10.2 The risk ratings are based on the current potential liabilities and likely potential future liabilities. The information from the previous site investigation has also been included within the model.

CONTAMINATION ASSESSMENT					
SOURCES	DETAILS	RECEPTORS	PATHWAYS	DETAILS	RISK RATING
Contamination in the made ground.	Sources include: Construction and demolition waste expected on the site such as brick, concrete, ash and possibly asbestos.	Future residents are likely to be adults and infants.	Dermal absorption	Front and rear gardens are proposed.	LOW-MOD
			Inhalation of soil/volatilsed compounds		
			Ingestion of soil		
			Contact with contaminated groundwater		
	Potential ground gas as site is located within a mining area.	Construction workers and users of site during construction.	Ground gas from vertical and horizontal migration	Ingress and Accumulation into structure.	MOD (C665)
			Dermal absorption	Made ground is expected on the site. Use appropriate PPE.	LOW-MOD
			Inhalation of soil/volatilsed compounds		
			Ingestion of soil		
			Contact with contaminated groundwater		
		Users of surrounding sites	Dermal absorption	Contact with wind blown dust during construction	LOW-MOD
			Inhalation of soil/volatilsed compounds		
		Vegetation	Ingestion of soil	Front and rear gardens are proposed.	LOW-MOD
			Uptake via roots and leaf surfaces		
		Groundwater	Slow seepage or leaching of contaminants	Secondary A Aquifer.	LOW
		Surface Water	Slow seepage or leaching of contaminants	None within 350m radius of the site.	LOW
			Accumulation of contaminated		

			sediments		
		Construction Materials	Direct contact	Relict and active utilities and services possible.	MOD
GEOTECHNICAL ASSESSMENT					
FACTOR		ON SITE DESCRIPTION			RISK RATING
MADE GROUND		Made ground is expected on the site			LOW-MOD
NATURAL SOILS		Weathered sandstone, sandy clays or clayey sands			LOW
SOLID GEOLOGY		Sandstone			LOW
MINING		Possible ancient shallow unrecorded mine workings.			MOD
RADON PROTECTION		No radon protection measures required			LOW
SUBSIDENCE /GROUND STABILITY		A very low risk is given for collapsible ground and landslide ground stability hazards.			LOW
FLOODING SUCEPTIBILITY		The area is not at risk of flood or extreme flooding from river or sea defence.			LOW
TABLE 3: CONCEPTUAL MODEL AND RISK ASSESSMENT					

11 CONCLUSIONS & RECOMMENDATIONS

- 11.1 The results of the desk study are presented in this report and Solmek can comment as follows:

Existing Features on and Near the Site

- 11.2 The site consists of a piece of land located off Cliff Lane which is surrounded by low fencing. The land is covered with unmanaged grass, bushes and locally immature trees.
- 11.3 The surrounding area consists of residential houses with recently constructed houses located to the west of the site. There were no major visual signs of contamination noted during the site walkover.

Historical

- 11.4 The site was initially developed with an "L" shaped building which was possibly agricultural, this was located in the northwest corner of the site and until it was demolished in 1981. Between 1962 and 1976 the remainder of the site was used as allotments. The site was developed with Grange House, which was an "E" shaped building in 1976 and this building extended beyond the east of the site. The building was demolished and the entire site was cleared by 2012.
- 11.5 The earliest maps show the village of Brierley located 100m east of the site. The surrounding area has seen little industrial development the most significant was Brierley Colliery which was located 200m south between 1919 and 1955, the site is now occupied with housing. The only development noted in the surrounding area was housing which were constructed immediately north in 1919, immediately south and west in 1976 and immediately east in 2012.

Geology and Environmental Setting

- 11.6 The solid geology beneath the site is likely to comprise Brierley Rock and the drift deposits are likely to be relatively thin to comprising of weathered sandstone (Sandy clay and clayey sands).
- 11.7 There are no coal seams conjectured to outcrop in the vicinity of the site, The Brierley Coal Seam is shown to sub-crop 400m west of the site, and dip beneath the site
- 11.8 The underlying solid geology beneath the site is classified as a **Secondary A Aquifer**.

Impact of Local Authority Guidance

- 11.9 Given the potential for the land on site to be contaminated it must be assessed with regards to Part 2A of the Environmental Protection Act (1990) and the local authority contaminated land strategy. The contamination status of the site will be considered as part of the planning process to ensure the site is suitable for the proposed use.

Proposed Development

- 11.10 The proposed development is for the construction of residential housing with parking and front and rear gardens.

Contamination

- 11.11 The historical maps and Envirocheck Report has revealed that the site has **probably** been exposed to contamination from construction and demolition former buildings. Made ground is expected to contain construction waste such as brick, concrete, glass and ash with the possibility of asbestos.

Geotechnical

- 11.12 A full geotechnical assessment cannot be carried out until a Phase 2 Site Investigation has been undertaken. Initial indications show traditional strip or deep strip footings should be appropriate, depending on the depth of made ground and nature of the underlying material ground.
- 11.13 The client is advised to obtain full utility drawings for the site before commencing any ground works as good practice.

Radon Risk

- 11.14 No radon protection measures are required for the development.

Mining

- 11.15 The report highlights that the site is situated in an area of sandstone over Middle Coal Measures, shales and mudstones.
- 11.16 The mining report indicates that there are four known worked coal seams below the site. The shallowest is named Shafton Coal Seam which is located at a depth of 295m subjacent to the site and has a cross section of 180cm. No evidence of any coal mining related subsistence claims in relation to the property were noted within the past 10 years.
- 11.17 The mining report also highlights that there are possibly ancient shallow coal mining workings beneath the site for which no accurate plans or records which exist.
- 11.18 The mining report concludes that it is unlikely that coal will be worked in the foreseeable future. For full details see the coal mining search report (Appendix 4).

Intrusive Investigation

- 11.19 A Phase 2 investigation should comprise a series of borehole across the site to establish shallow ground conditions. A series of CBR testing should also be carried out.
- 11.20 Selected samples of soil should be submitted for contamination and geotechnical testing.

- 11.21 Gas/groundwater monitoring pipes should be installed in at least three boreholes (in accordance with C665) to assess the shallow ground gas and water levels beneath the site. We would advise a minimum of three visits initially and if high or variable concentrations of ground gases are recorded, an extended period of monitoring may be necessary.
- 11.22 Due to the uncertainty associated with ancient unrecorded workings under the site three open hole rotary boreholes should be drilled to 20m depth to prove the presence, or otherwise of any shallow workings.
- 11.23 Site investigations are designed according to the type of development, the requirements of the client, and recommendations given in BS 5930 and BS 10175.

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APPENDIX 1: Figures & Plates

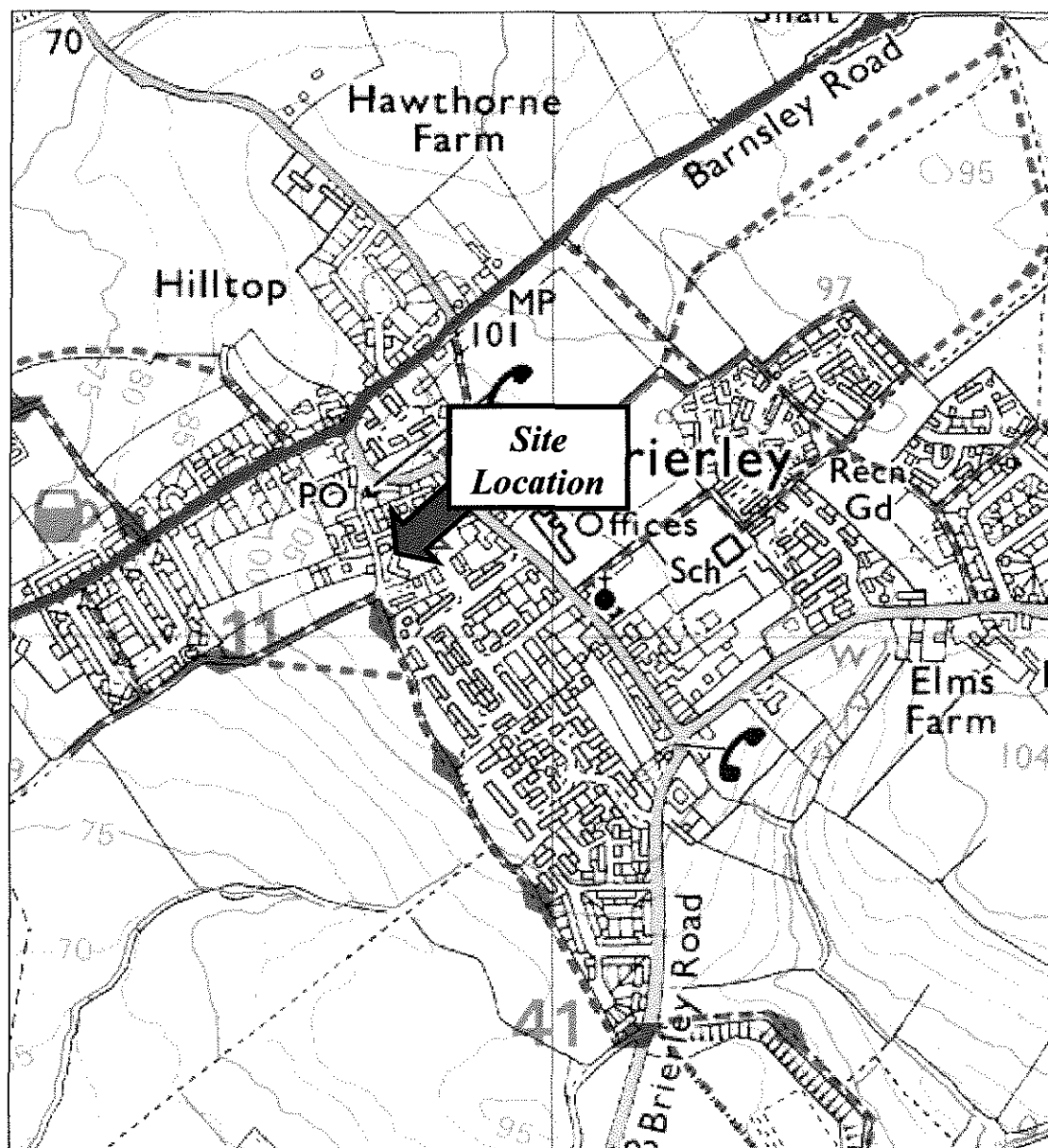


Figure 1: Site Location Plan

Client:	Yorkshire Housing	
Project:	Cliff Close, Barnsley	
Title:	Site Location Plan	
Drawing No:	Figure 1	Scale: NTS
Date	August 2012	



Figure 2: Site Location Plan

Client:	Yorkshire Housing	
Project:	Cliff Close, Barnsley	
Title:	Site Boundary Plan	
Drawing No:	Figure 2	Scale: NTS
Date	August 2012	



Plate 1: View looking north from the southeast of the site.



Plate 2: View looking northeast from the south of the site.

Client:	Yorkshire Housing		
Project:	Cliff Close, Barnsley		
Title:	Site Photographs		
Drawing No:	Plates 1 & 2	Scale:	NTS
Date	August 2012		
SOLMEK			



Plate 3: View looking north from the centre of the site.



Plate 4: View looking south from the north of the site.

Client:	Yorkshire Housing	
Project:	Cliff Close, Barnsley	
Title:	Site Photographs	
Drawing No:	Plates 3 & 4	Scale: NTS
Date	August 2012	

APPENDIX 2: Historical Map Extracts



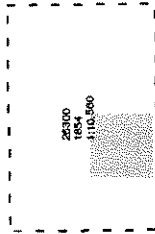
Yorkshire

Published 1854

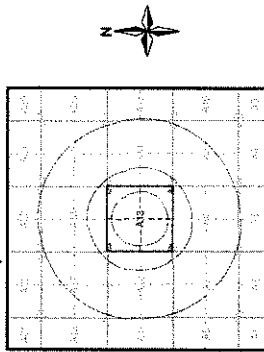
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given here is often some years later than the surveyed date. Before 1939, all OS maps were based on the Cassini Projection, with independent surveys of a single county or area in the 1840's and 1850's. Significant changes in the underlying county boundaries in 1890 and 1974 were reflected in the maps 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 overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

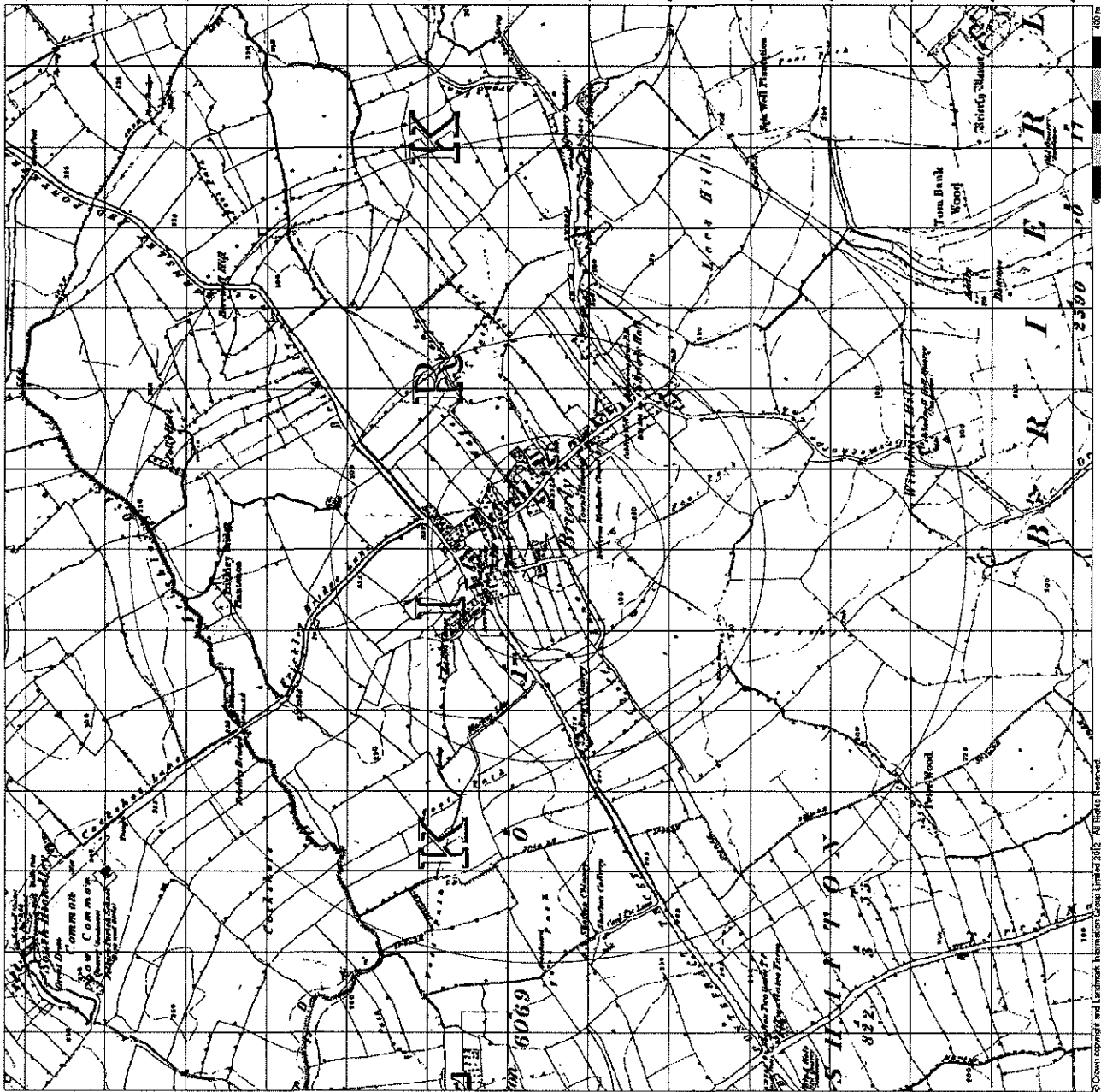
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Customer Ref: S120812
National Grid Reference: 40800, 41100
Site: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

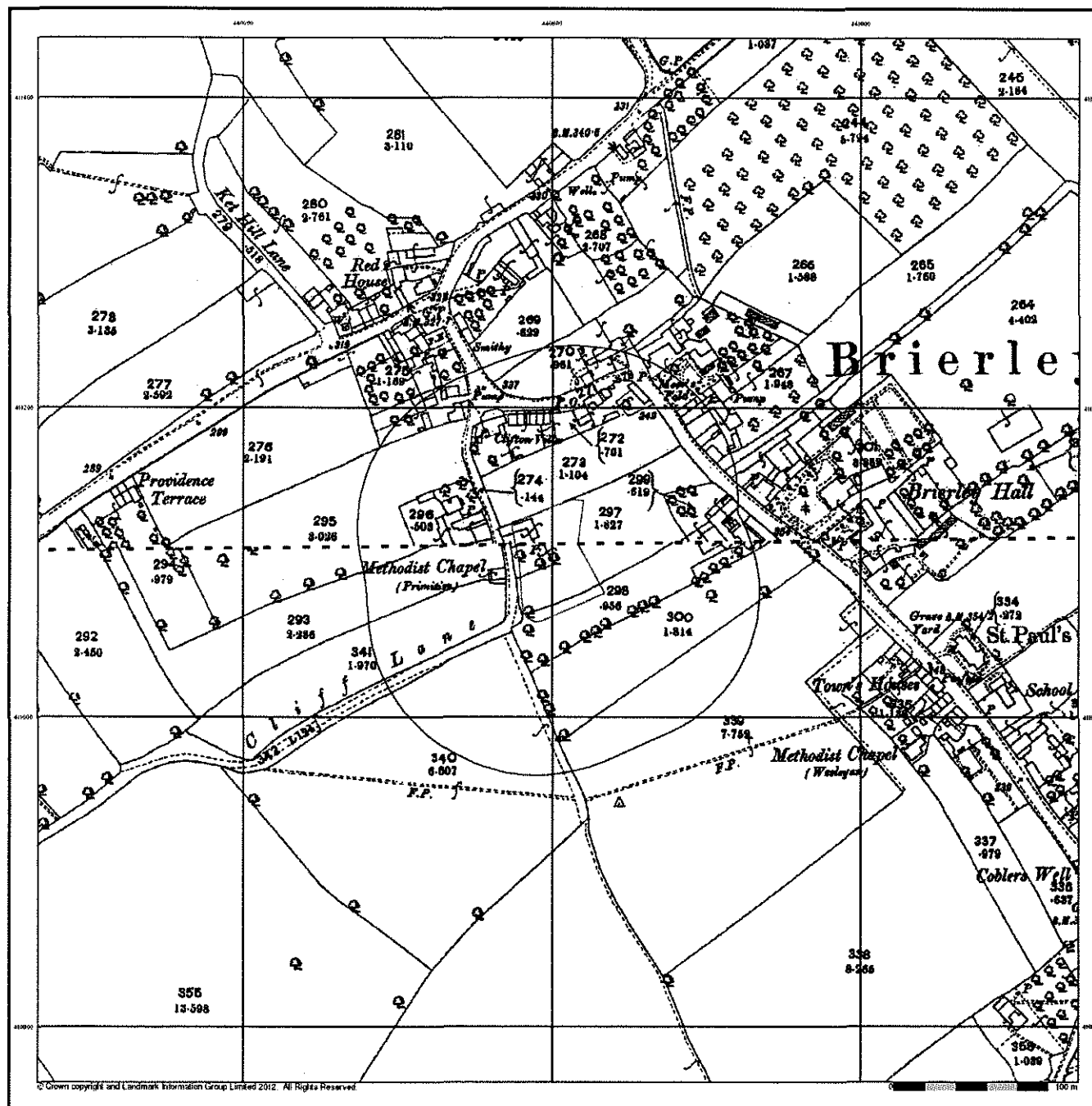
Site Details

Cliff Close, Brierley, BARNESLEY, South Yorkshire, S72 9HR



A Landmark Information Group Service v47.0 07-Aug-2012 Page 2 of 17





Envirocheck®

Yorkshire

Published 1893

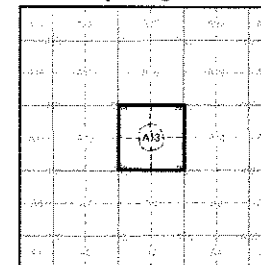
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1838, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

263 10	1893	1:2,500
263 14	1893	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 40670097_1_1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Site: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

Cliff Close, Brierley, BARNLEY, South Yorkshire, S72 9HR



Tel: 0844 044 9952
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Web: www.envirocheck.co.uk



Published 1894

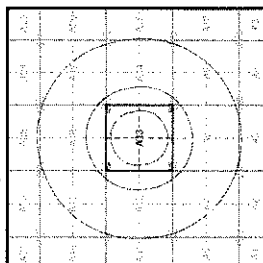
The historical maps shown were reproduced from maps produced at the scale adopted for Finland, Wales and Scotland in the 19th century.

The historical maps shown were produced from maps predominantly held by the Ordnance Survey, the agency responsible for the production of the maps adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:25,000 scale was introduced for mapping urban areas; these maps were used to update the 1:10,000 maps. The published date given therefore is the date of the last survey data that the surveyed data. Before 1958, at OS maps were produced every 10 years, but after 1958, the frequency of updates was reduced to 15 years for rural areas, 10 years for urban areas, and 5 years for built-up areas. The 1:10,000 scale maps from a number of sources. The maps appear to be from the 1950s, 1960s, 1970s, 1980s, 1990s, 2000s, 2010s, 2020s, 2030s, 2040s, 2050s, 2060s, 2070s, 2080s, 2090s, 2100s, 2110s, 2120s, 2130s, 2140s, 2150s, 2160s, 2170s, 2180s, 2190s, 2200s, 2210s, 2220s, 2230s, 2240s, 2250s, 2260s, 2270s, 2280s, 2290s, 2300s, 2310s, 2320s, 2330s, 2340s, 2350s, 2360s, 2370s, 2380s, 2390s, 2400s, 2410s, 2420s, 2430s, 2440s, 2450s, 2460s, 2470s, 2480s, 2490s, 2500s, 2510s, 2520s, 2530s, 2540s, 2550s, 2560s, 2570s, 2580s, 2590s, 2600s, 2610s, 2620s, 2630s, 2640s, 2650s, 2660s, 2670s, 2680s, 2690s, 2700s, 2710s, 2720s, 2730s, 2740s, 2750s, 2760s, 2770s, 2780s, 2790s, 2800s, 2810s, 2820s, 2830s, 2840s, 2850s, 2860s, 2870s, 2880s, 2890s, 2900s, 2910s, 2920s, 2930s, 2940s, 2950s, 2960s, 2970s, 2980s, 2990s, 3000s, 3010s, 3020s, 3030s, 3040s, 3050s, 3060s, 3070s, 3080s, 3090s, 3100s, 3110s, 3120s, 3130s, 3140s, 3150s, 3160s, 3170s, 3180s, 3190s, 3200s, 3210s, 3220s, 3230s, 3240s, 3250s, 3260s, 3270s, 3280s, 3290s, 3300s, 3310s, 3320s, 3330s, 3340s, 3350s, 3360s, 3370s, 3380s, 3390s, 3400s, 3410s, 3420s, 3430s, 3440s, 3450s, 3460s, 3470s, 3480s, 3490s, 3500s, 3510s, 3520s, 3530s, 3540s, 3550s, 3560s, 3570s, 3580s, 3590s, 3600s, 3610s, 3620s, 3630s, 3640s, 3650s, 3660s, 3670s, 3680s, 3690s, 3700s, 3710s, 3720s, 3730s, 3740s, 3750s, 3760s, 3770s, 3780s, 3790s, 3800s, 3810s, 3820s, 3830s, 3840s, 3850s, 3860s, 3870s, 3880s, 3890s, 3900s, 3910s, 3920s, 3930s, 3940s, 3950s, 3960s, 3970s, 3980s, 3990s, 4000s, 4010s, 4020s, 4030s, 4040s, 4050s, 4060s, 4070s, 4080s, 4090s, 4100s, 4110s, 4120s, 4130s, 4140s, 4150s, 4160s, 4170s, 4180s, 4190s, 4200s, 4210s, 4220s, 4230s, 4240s, 4250s, 4260s, 4270s, 4280s, 4290s, 4300s, 4310s, 4320s, 4330s, 4340s, 4350s, 4360s, 4370s, 4380s, 4390s, 4400s, 4410s, 4420s, 4430s, 4440s, 4450s, 4460s, 4470s, 4480s, 4490s, 4500s, 4510s, 4520s, 4530s, 4540s, 4550s, 4560s, 4570s, 4580s, 4590s, 4600s, 4610s, 4620s, 4630s, 4640s, 4650s, 4660s, 4670s, 4680s, 4690s, 4700s, 4710s, 4720s, 4730s, 4740s, 4750s, 4760s, 4770s, 4780s, 4790s, 4800s, 4810s, 4820s, 4830s, 4840s, 4850s, 4860s, 4870s, 4880s, 4890s, 4900s, 4910s, 4920s, 4930s, 4940s, 4950s, 4960s, 4970s, 4980s, 4990s, 5000s, 5010s, 5020s, 5030s, 5040s, 5050s, 5060s, 5070s, 5080s, 5090s, 5100s, 5110s, 5120s, 5130s, 5140s, 5150s, 5160s, 5170s, 5180s, 5190s, 5200s, 5210s, 5220s, 5230s, 5240s, 5250s, 5260s, 5270s, 5280s, 5290s, 5300s, 5310s, 5320s, 5330s, 5340s, 5350s, 5360s, 5370s, 5380s, 5390s, 5400s, 5410s, 5420s, 5430s, 5440s, 5450s, 5460s, 5470s, 5480s, 5490s, 5500s, 5510s, 5520s, 5530s, 5540s, 5550s, 5560s, 5570s, 5580s, 5590s, 5600s, 5610s, 5620s, 5630s, 5640s, 5650s, 5660s, 5670s, 5680s, 5690s, 5700s, 5710s, 5720s, 5730s, 5740s, 5750s, 5760s, 5770s, 5780s, 5790s, 5800s, 5810s, 5820s, 5830s, 5840s, 5850s, 5860s, 5870s, 5880s, 5890s, 5900s, 5910s, 5920s, 5930s, 5940s, 5950s, 5960s, 5970s, 5980s, 5990s, 6000s, 6010s, 6020s, 6030s, 6040s, 6050s, 6060s, 6070s, 6080s, 6090s, 6100s, 6110s, 6120s, 6130s, 6140s, 6150s, 6160s, 6170s, 6180s, 6190s, 6200s, 6210s, 6220s, 6230s, 6240s, 6250s, 6260s, 6270s, 6280s, 6290s, 6300s, 6310s, 6320s, 6330s, 6340s, 6350s, 6360s, 6370s, 6380s, 6390s, 6400s, 6410s, 6420s, 6430s, 6440s, 6450s, 6460s, 6470s, 6480s, 6490s, 6500s, 6510s, 6520s, 6530s, 6540s, 6550s, 6560s, 6570s, 6580s, 6590s, 6600s, 6610s, 6620s, 6630s, 6640s, 6650s, 6660s, 6670s, 6680s, 6690s, 6700s, 6710s, 6720s, 6730s, 6740s, 6750s, 6760s, 6770s, 6780s, 6790s, 6800s, 6810s, 6820s, 6830s, 6840s, 6850s, 6860s, 6870s, 6880s, 6890s, 6900s, 6910s, 6920s, 6930s, 6940s, 6950s, 6960s, 6970s, 6980s, 6990s, 7000s, 7010s, 7020s, 7030s, 7040s, 7050s, 7060s, 7070s, 7080s, 7090s, 7100s, 7110s, 7120s, 7130s, 7140s, 7150s, 7160s, 7170s, 7180s, 7190s, 7200s, 7210s, 7220s, 7230s, 7240s, 7250s, 7260s, 7270s, 7280s, 7290s, 7300s, 7310s, 7320s, 7330s, 7340s, 7350s, 7360s, 7370s, 7380s, 7390s, 7400s, 7410s, 7420s, 7430s, 7440s, 7450s, 7460s, 7470s, 7480s, 7490s, 7500s, 7510s, 7520s, 7530

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12



Historical Map - Slice A



Order Number: _____
Customer Ref. _____

Order Number: 40870097_1_1
Customer Ref: S120812
National Grid Reference: 408000, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

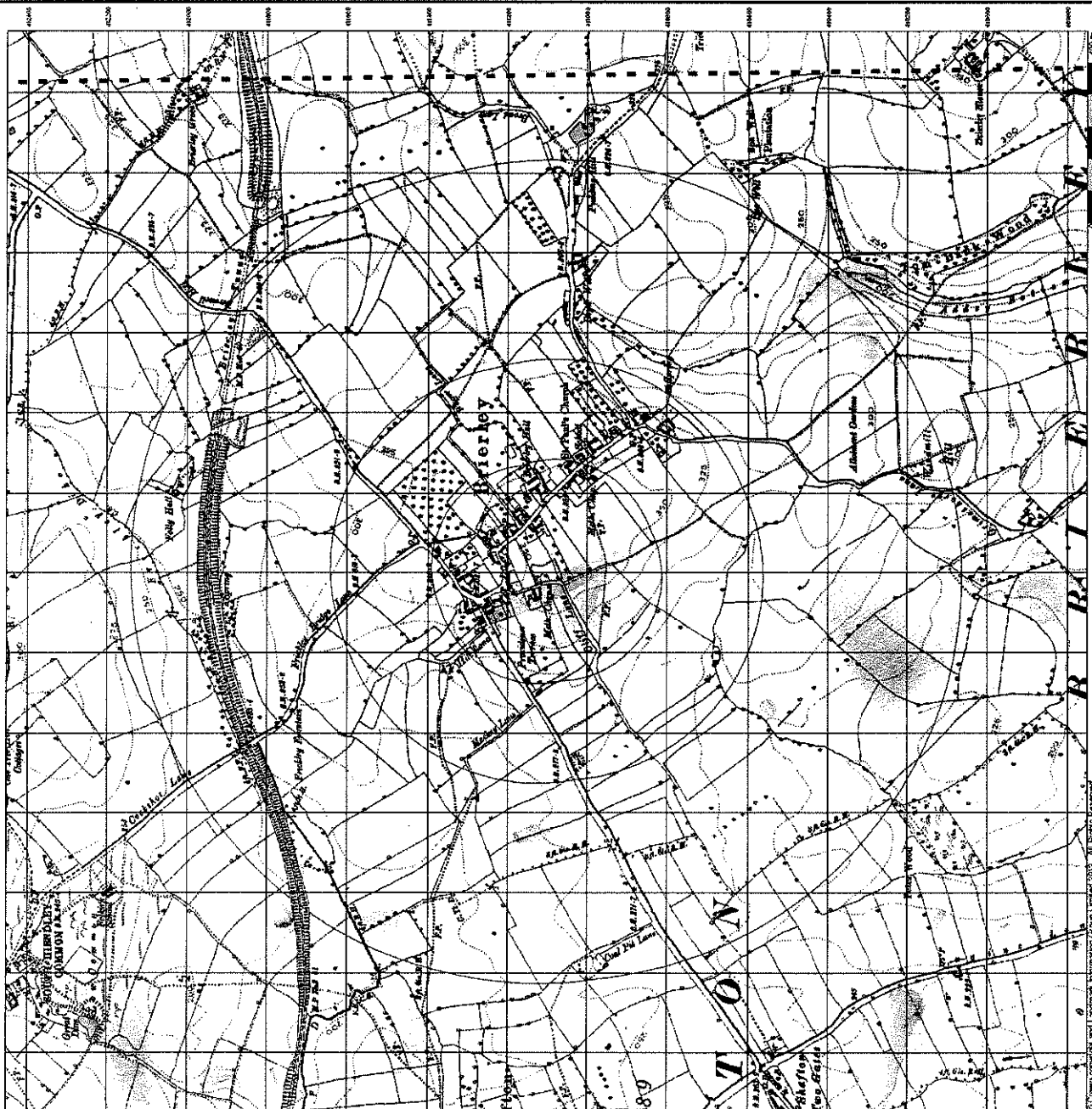
Cliff Close, Brierley

Site Details
Cliff Close, Brierley, BARNSELEY, South Yorkshire, S72 9HR

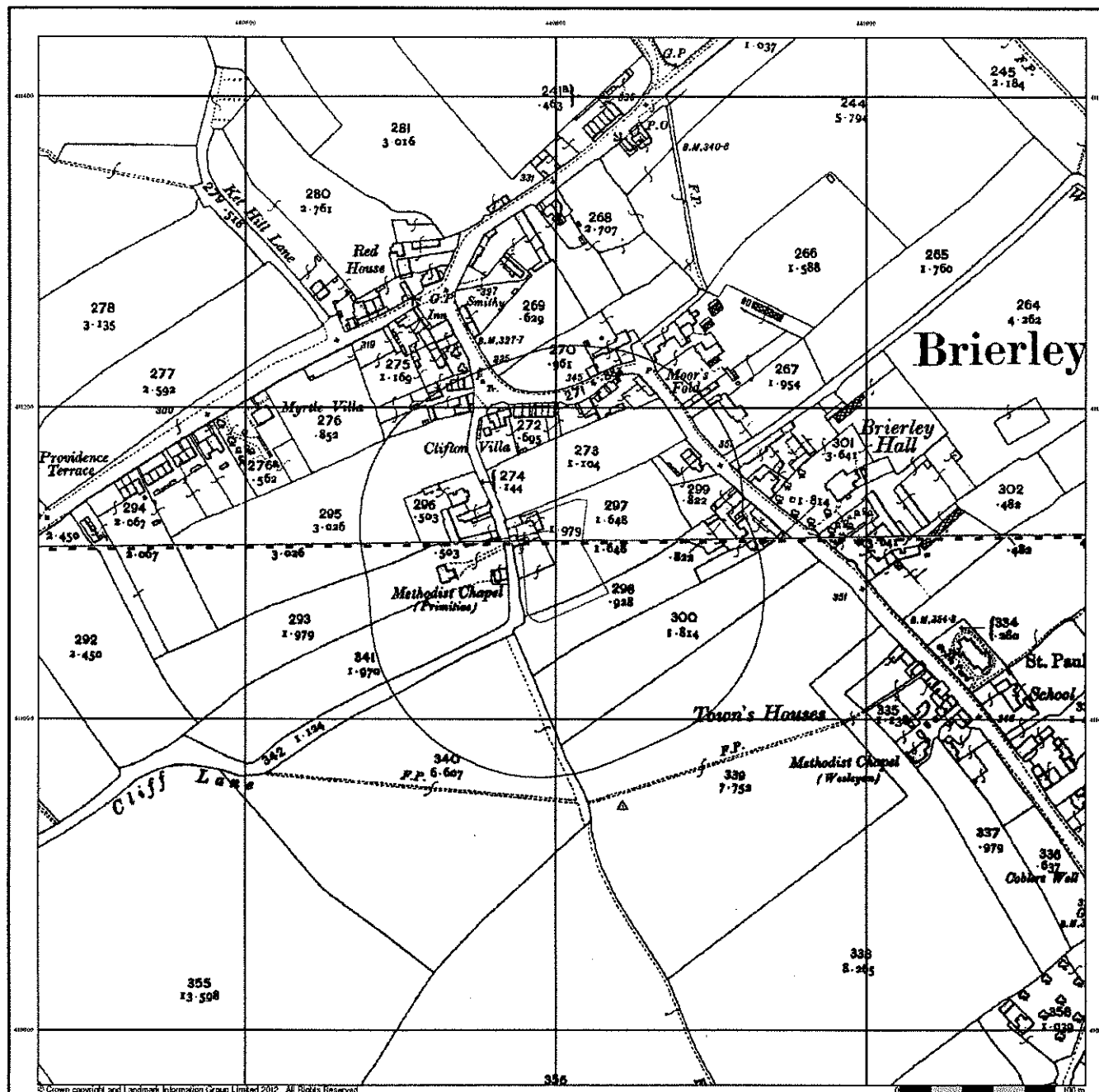


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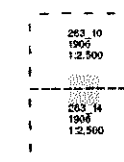
Yorkshire

Published 1906

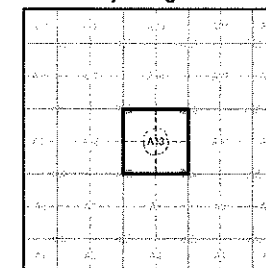
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1898 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

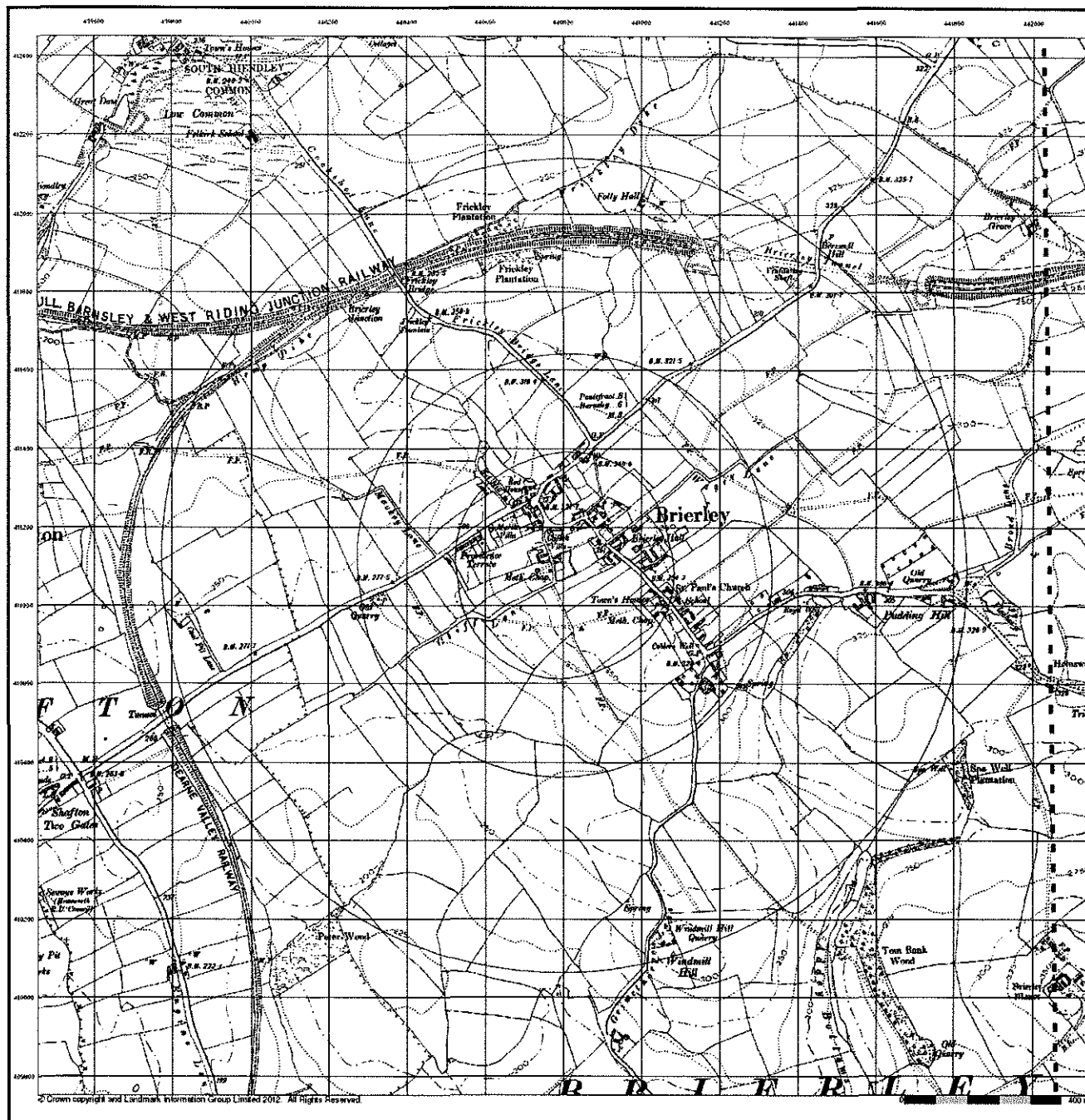
Order Number: 40670097_1.1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

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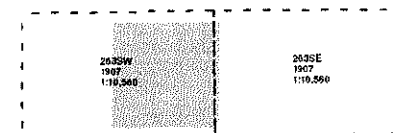
Yorkshire

Published 1907

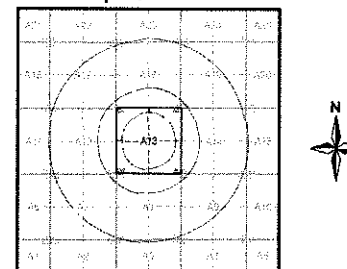
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A





Yorkshire

Published 1919

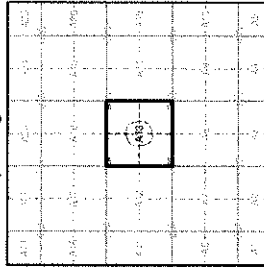
Source map scale - 1:2,500

The historical maps shown were reproduced from maps exceptionally held at the scale adopted for England, Wales and Scotland in the 1947 A. In 1954 the 1:2,500 scale was adopted for mapping urban areas and by 1958 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1935, all OS maps were based on the Cassini Survey of 1790-1840, which was based on a grid of squares, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

293 10	1919
293 11	12,500
293 12	12,500
293 13	12,500
293 14	12,500

Historical Map - Segment A13



Order Details

Order Number: 40570097_1.1

Customer Ref: S120812

National Grid Reference: 440800, 411100

Site: A

Site Area (Ha): 0.31

Search Buffer (m): 100

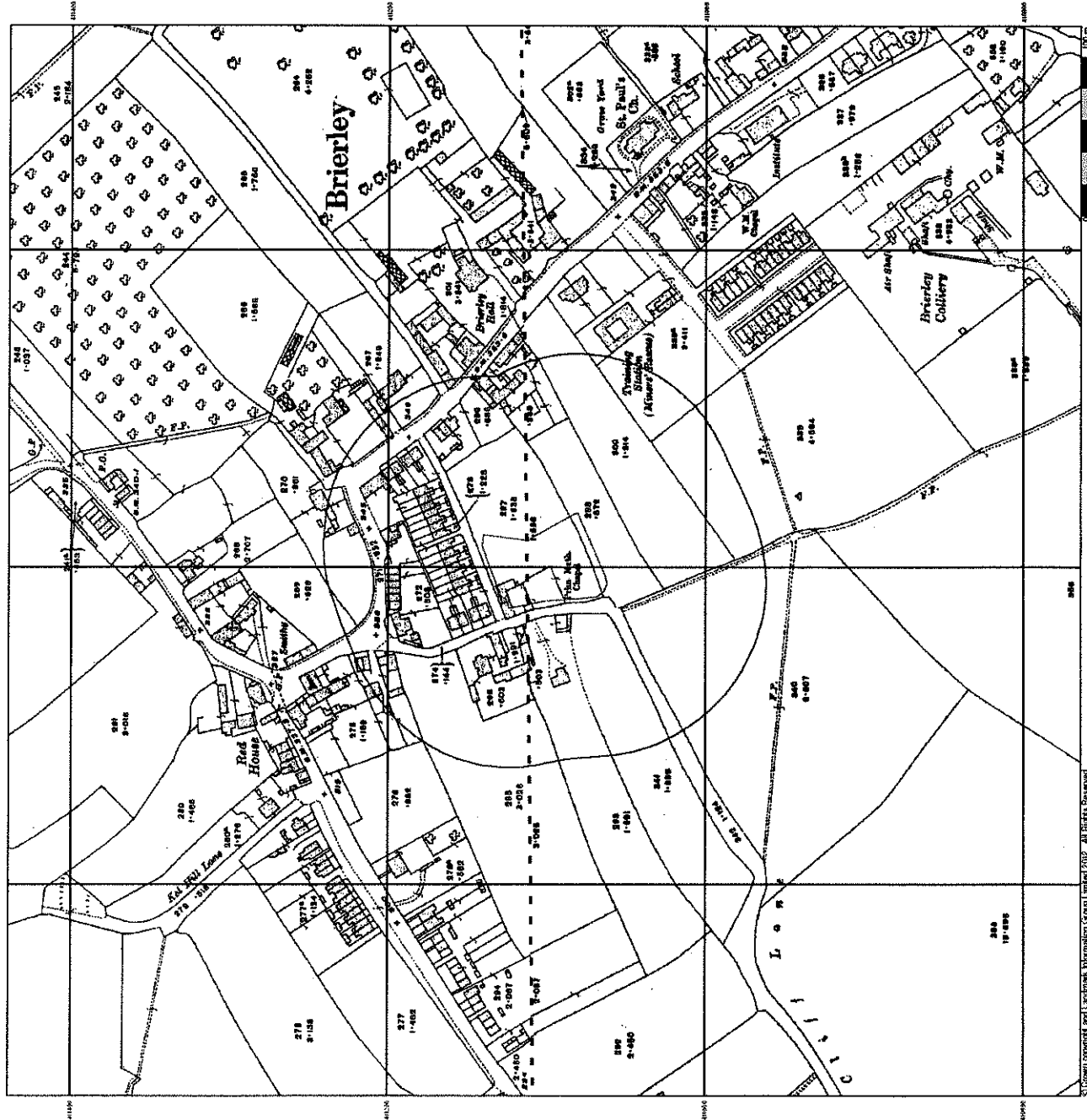
Site Details

Cliff Close, Brierley, BARNSLEY, South Yorkshire, S72 9HR



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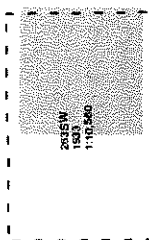


Published 1933

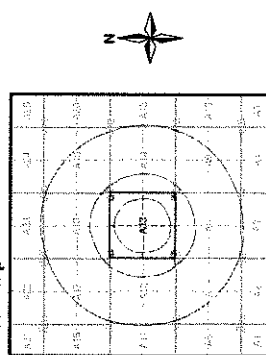
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly used before the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:25,000 scale was adopted for mapping urban areas: these maps were used to update the 1:10,000 scale. The published date given therefore is the date of the update rather than the surveyed date. Before 1954, all OS maps were produced at the 1:50,000 scale, and were based on the Ordnance Survey county or group of counties, giving rise to significant inaccuracies in outlining urban areas. The 1940's 1:50,000 map was produced, which updated the 1:10,000 map from a number of sources. The maps appear to be unfortified - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid in 1970. The first revision series was published in 1975, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 40670097_1_1
Customer Ref: S120812
National Grid Reference: 404800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

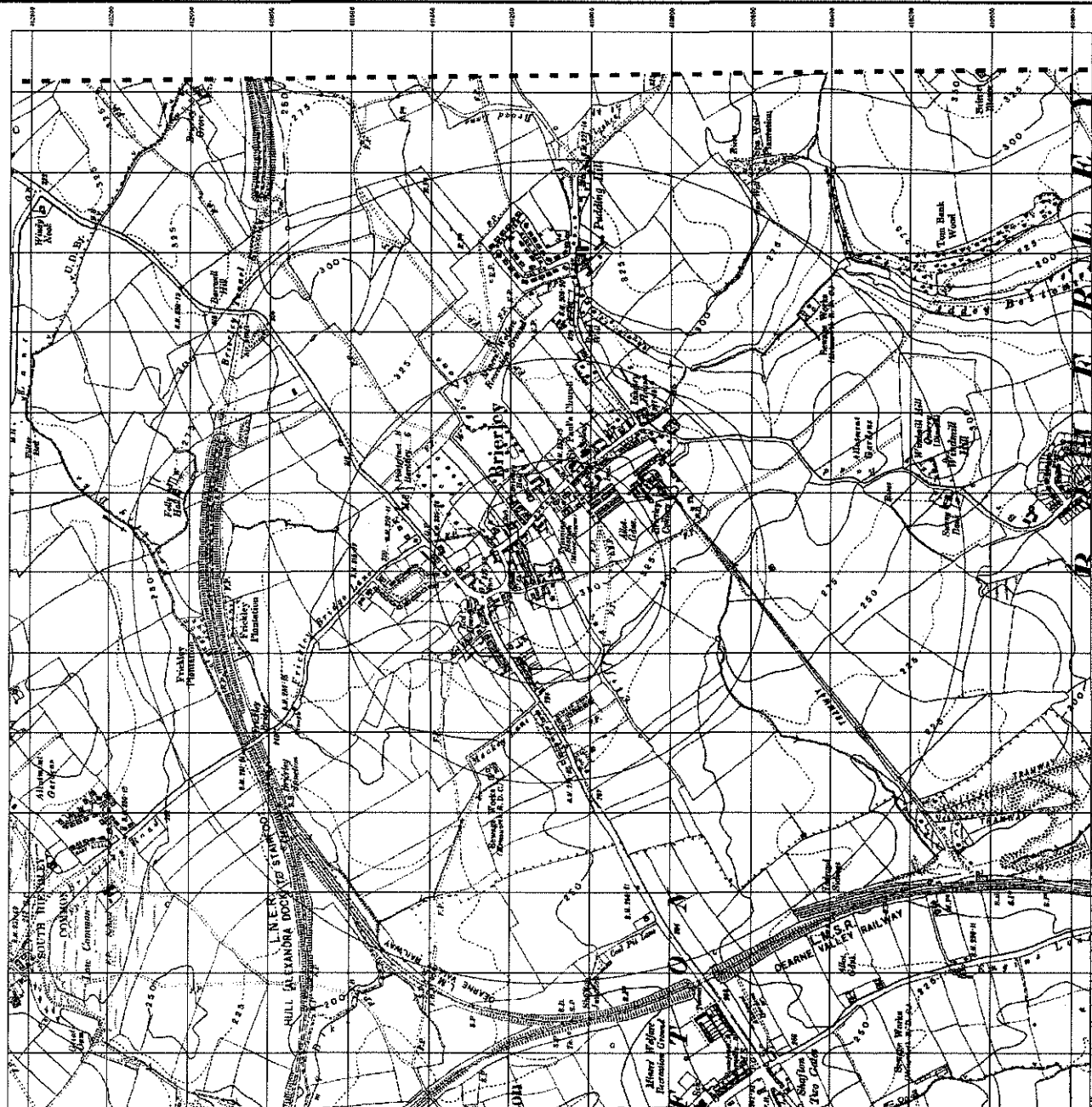
Site Details

Cliff Close, Brierley, BARNLEY, South Yorkshire, S72 9HR

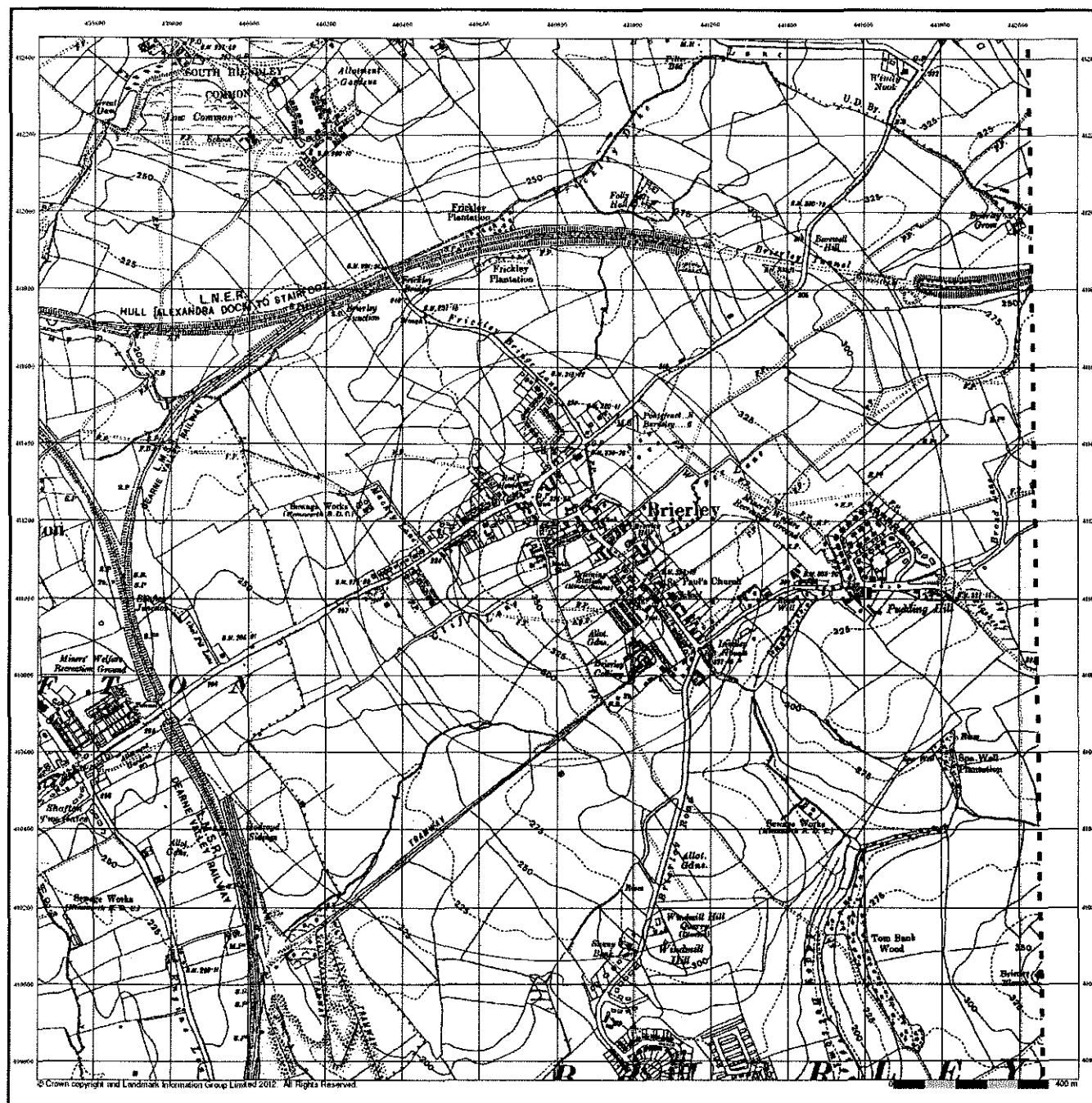


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A Landmark Information Group Service v47.0 07-Aug-2012 Page 6 of 17



2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420</
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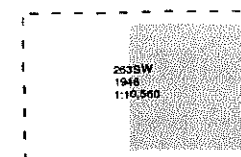


Yorkshire
Published 1948

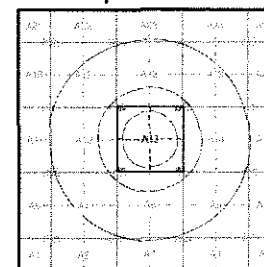
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed data. 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.

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Ordinance Survey Plan

Published 1955 - 1956

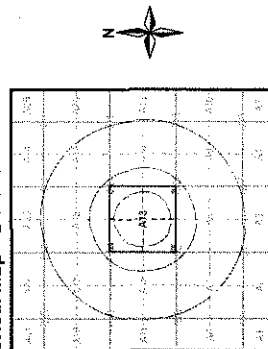
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,000 maps. The published data given therefore is often some years later than the surveyed date. Before 1953, all OS maps were based on the Cassini Projection, with subsequent surveys at a single scale being projected to the same scale. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 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 maps were then updated with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE4SE	SE4SW
1:10,560	1:10,560
SE4NE	SE4NW
1:10,560	1:10,560

Historical Map - Slice A



Order Details

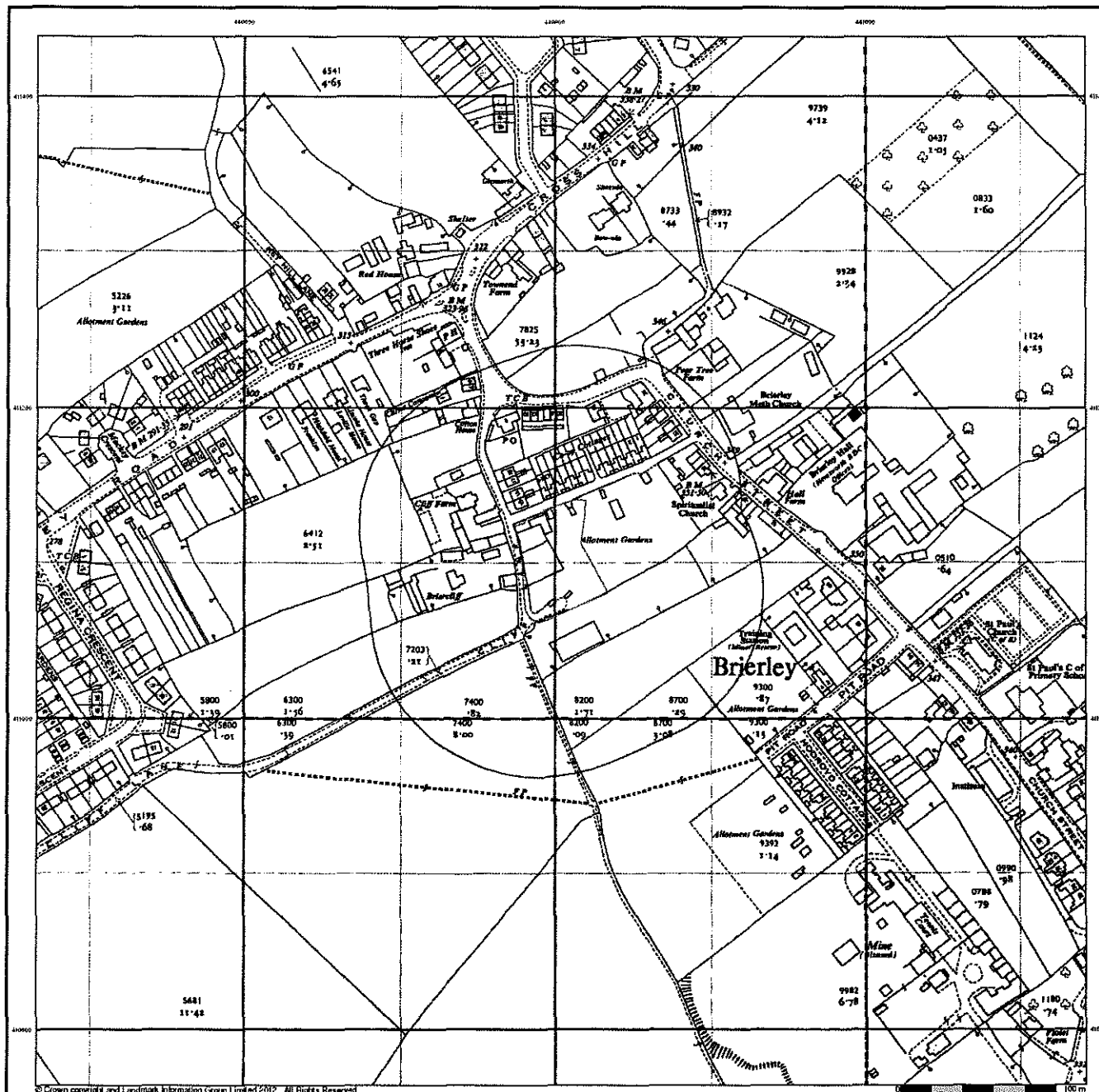
Order Number: 40670097_1_1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

Site Details

Cliff Close, Brierley, BARNESLEY, South Yorkshire, S72 9HR



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Web: www.landmark.co.uk



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Ordnance Survey Plan

Published 1962

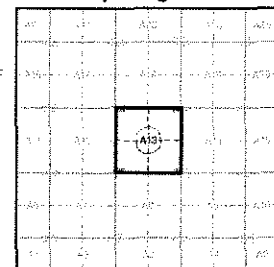
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed data. Before 1930, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE 4011 1962 1:2,500	SE 4111 1962 1:2,500
SE 4010 1962 1:2,500	SE 4110 1962 1:2,500

Historical Map - Segment A13



Order Details

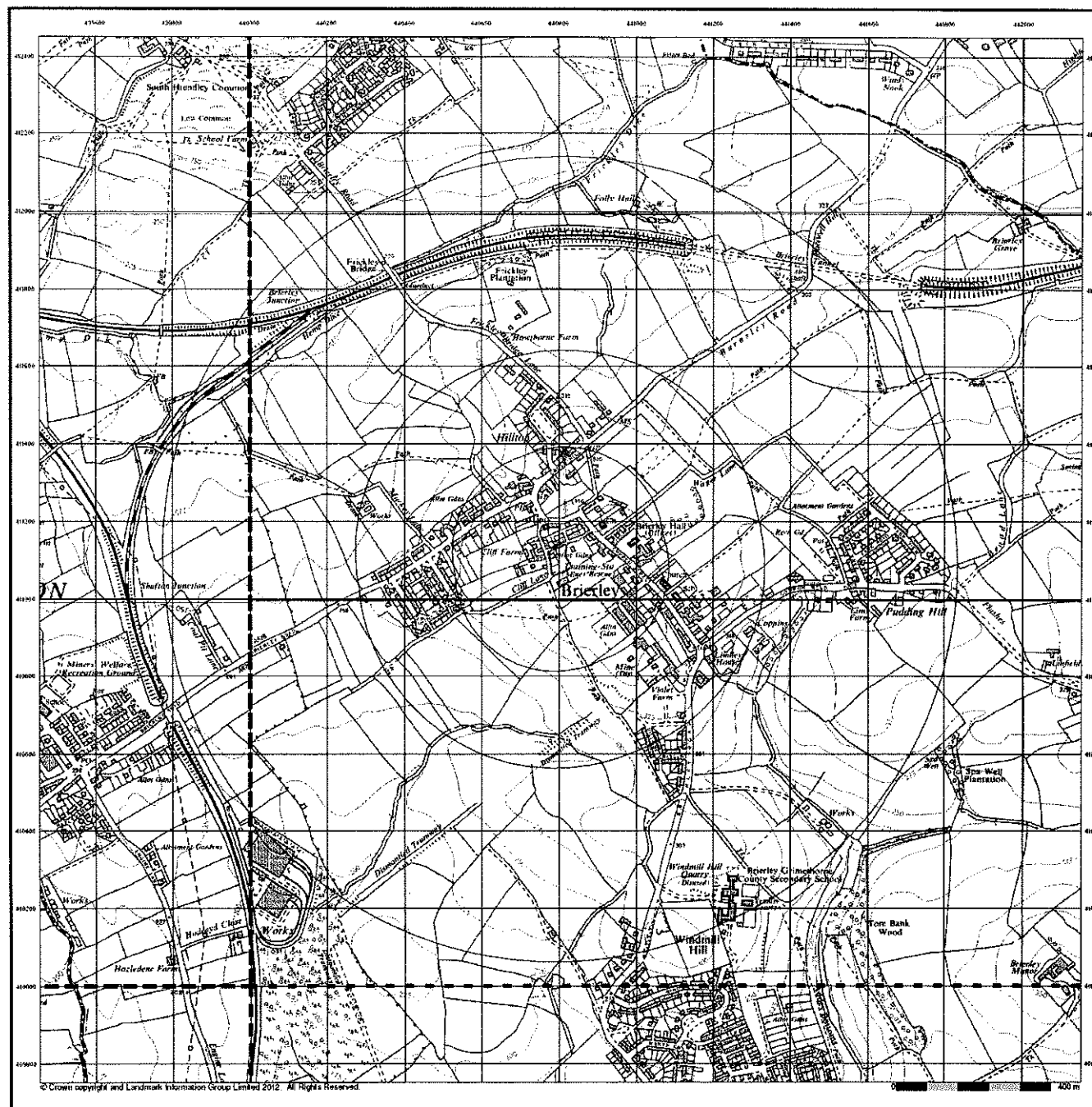
Order Number: 40670097_1_1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

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Ordnance Survey Plan

Published 1966 - 1967

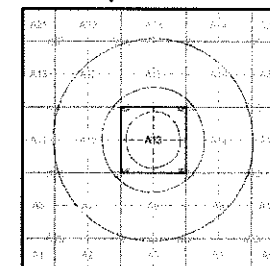
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1838, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE31SE	SE41SW
1966	1967
1:10,560	1:10,560
SE30NE	SE40NW
1966	1967
1:10,560	1:10,560

Historical Map - Slice A



Order Details

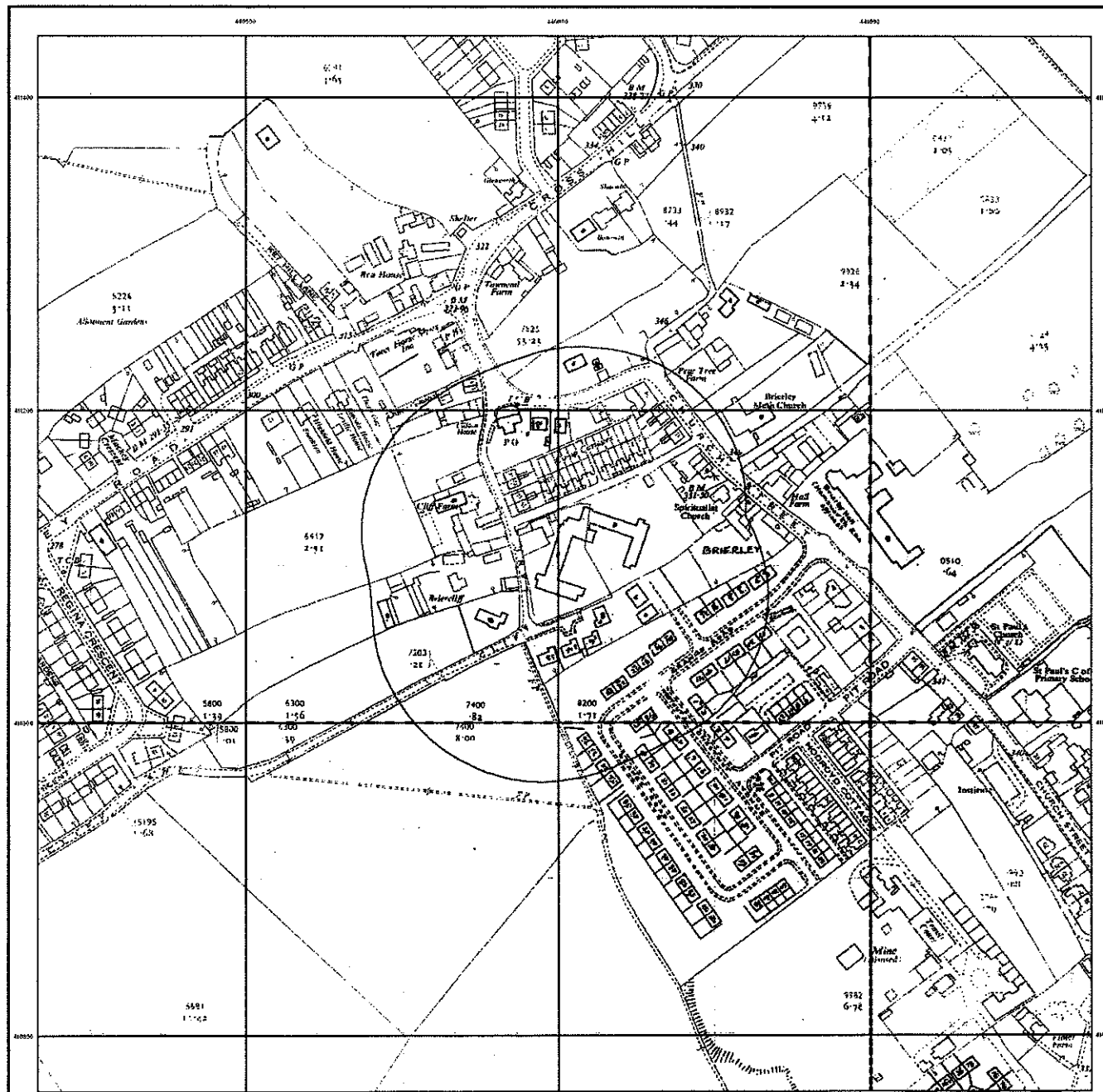
Order Number: 40670097_1_1
 Customer Ref: S120812
 National Grid Reference: 440800, 411100
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

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Supply of Unpublished Survey Information

Published 1976

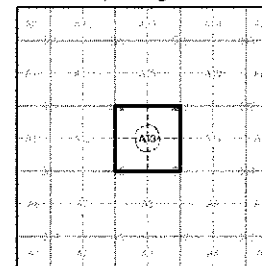
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SE 4011 1976 1:2,500	SE 4111 1979 1:2,500
SE 4010 1976 1:2,500	SE 4110 1976 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 40670087_1_1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

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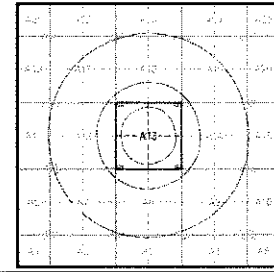
Ordnance Survey Plan Published 1981 - 1984 Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SE31SE 1981 1:10,000	SE41SW 1984 1:10,000
SE30NE 1984 1:10,000	SE40NW 1983 1:10,000

Historical Map - Slice A



Order Details

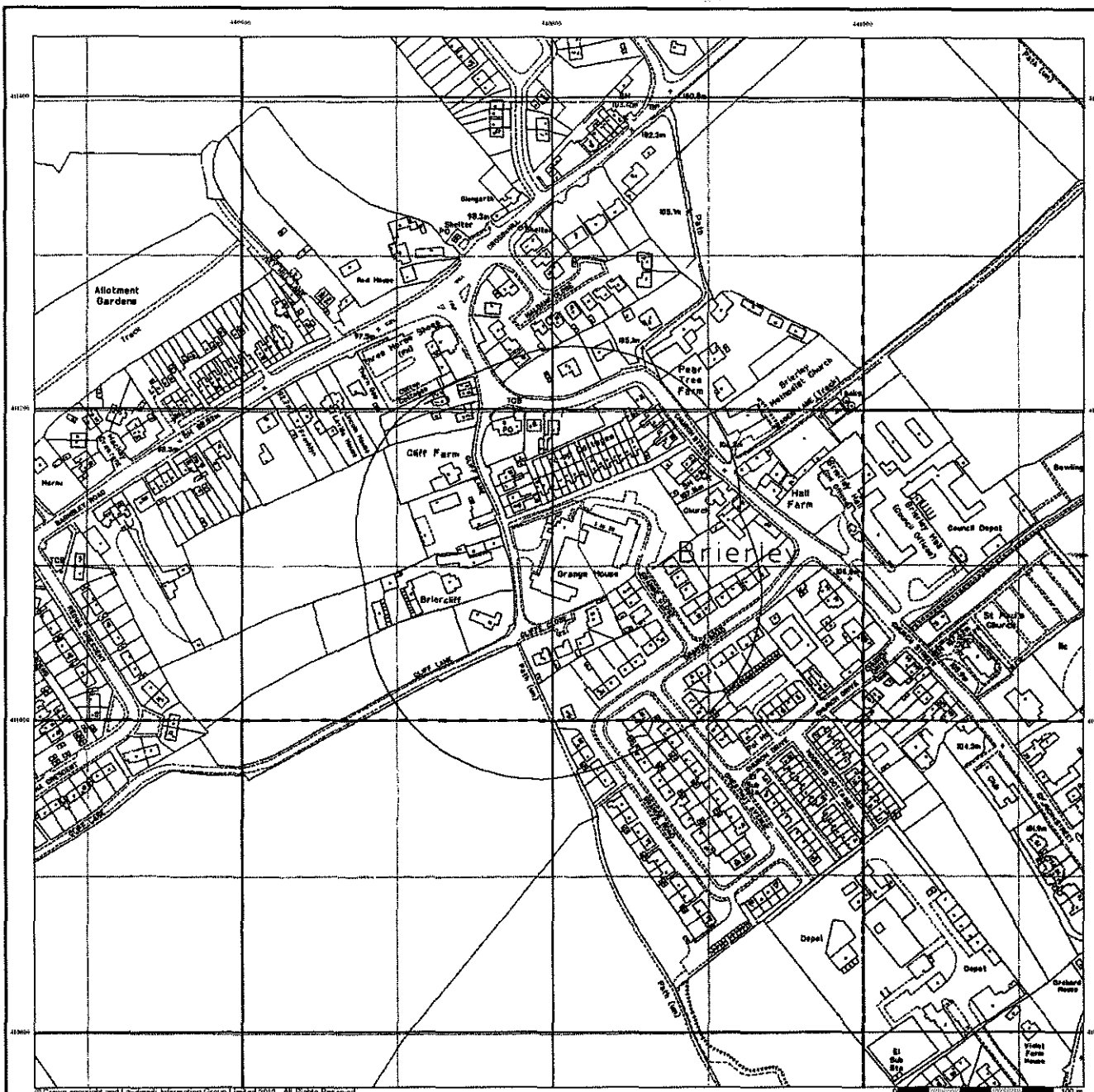
Order Number: 40670097_1_1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

Site Details

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Large-Scale National Grid Data

Published 1993

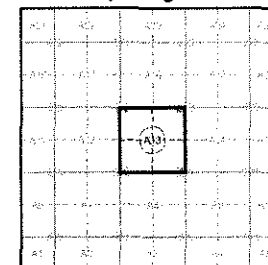
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1998. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SE4011 1993 12,500	SE4111 1993 12,500
SE4010 1993 12,500	SE4110 1993 12,500

Historical Map - Segment A13



Order Details

Order Number: 40670097_1_1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

Cliff Close, Brierley, BARNSELY, South Yorkshire, S72 9HR



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10k Raster Mapping

Published 2006

Source map scale - 1:10,000

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

Map Name(s) and Date(s)

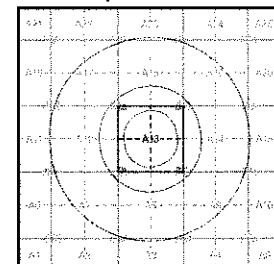
SE31SE
2006
1:10,000

SE41SW
2006
1:10,000

SE30NE
2006
1:10,000

SE40NW
2006
1:10,000

Historical Map - Slice A



Order Details

Order Number: 40670097_1_1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

Site Details

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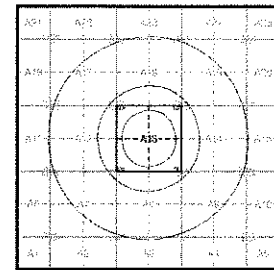
10k Raster Mapping
Published 2012
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SE31SE 2012 1:10,000	SE41SW 2012 1:10,000
SE30NE 2012 1:10,000	SE40NW 2012 1:10,000

Historical Map - Slice A



Order Details

Order Number: 40670097_1_1
 Customer Ref: S120812
 National Grid Reference: 440800, 411100
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Coppice
	Marsh		Heath
	Reeds		Rough Grassland
	Saltings		
	Building		Direction of Flow of Water
	Glasshouse		Shingle
	Sloping Masonry		Sand
	Pylon		Electricity Transmission Line
	Cuttling		Pole
	Embankment		
	Standard Gauge Multiple Track		
	Standard Gauge Single Track		
	Siding, Tramway or Mineral Line		
	Narrow Gauge		
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency		
	Civil Parish		
	Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

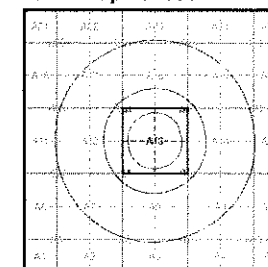
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1854	2
Yorkshire	1:10,560	1854	2
Yorkshire	1:10,560	1907	4
Yorkshire	1:10,560	1930	8
Yorkshire	1:10,560	1933	8
Yorkshire	1:10,560	1938	7
Yorkshire	1:10,560	1938 - 1948	8
Yorkshire	1:10,560	1948	9
Ordnance Survey Plan	1:10,000	1855 - 1856	10
Ordnance Survey Plan	1:10,000	1966 - 1967	11
Ordnance Survey Plan	1:10,000	1974	12
Ordnance Survey Plan	1:10,000	1981 - 1984	13
Ordnance Survey Plan	1:10,000	1989	14
Ordnance Survey Plan	1:10,000	1990 - 1993	15
10K Raster Mapping	1:10,000	2006	16
10K Raster Mapping	1:10,000	2012	17

Historical Map - Slice A



Order Details

Order Number: 40670097_1_1
 Customer Ref: S120812
 National Grid Reference: 440800, 411100
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

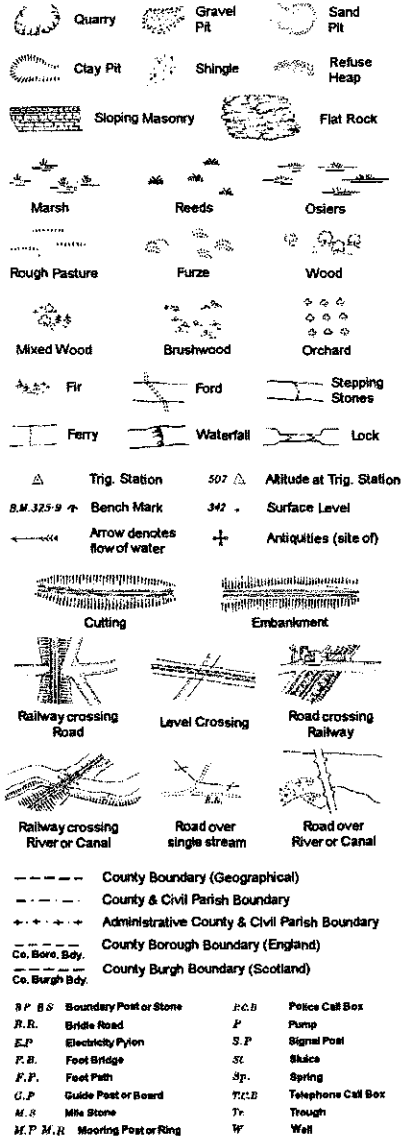
Cliff Close, Brierley, BARNSELY, South Yorkshire, S72 9HR



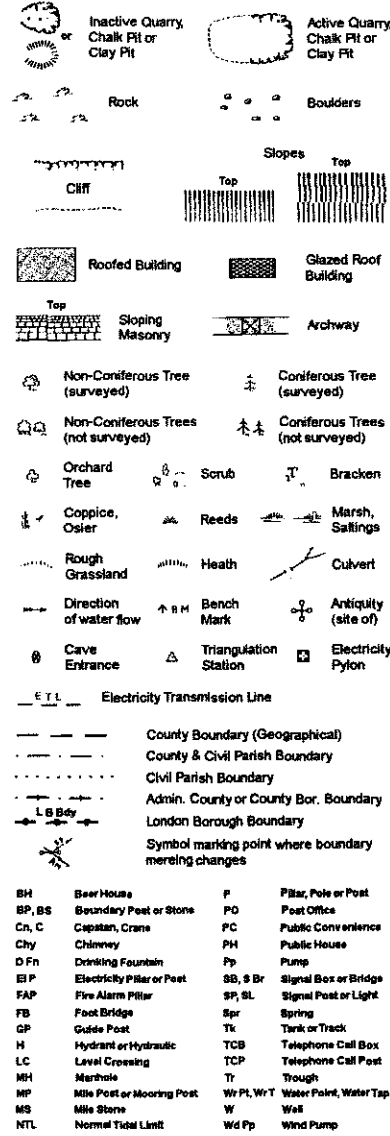
Tel: 0844 844 9952
 Fax: 0344 844 9951
 Web: www.envirocheck.co.uk

Historical Mapping Legends

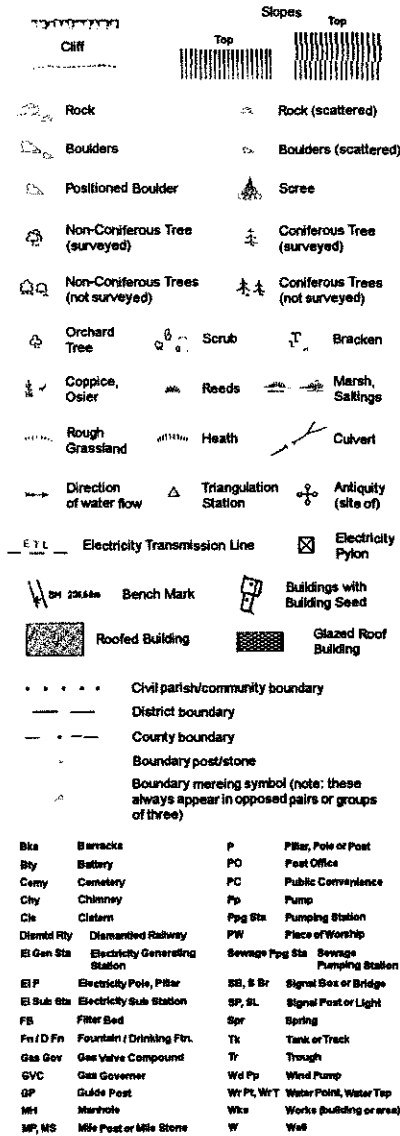
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



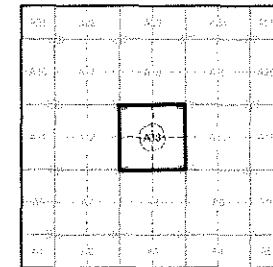
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1983	2
Yorkshire	1:2,500	1986	3
Yorkshire	1:2,500	1919	4
Ordnance Survey Plan	1:2,500	1962	5
Supply of Unpublished Survey Information	1:2,500	1976	6
Ordnance Survey Plan	1:2,500	1978 - 1988	7
Additional Sites	1:2,500	1978 - 1988	8
Additional Sites	1:2,500	1982 - 1988	9
Additional Sites	1:2,500	1992	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:2,500	1997	12

Historical Map - Segment A13



Order Details

Order Number: 40670097_1_1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

Cliff Close, Brierley, BARNESLEY, South Yorkshire, S72 9HR



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APPENDIX 3: Envirocheck Report



Envirocheck® Report:

Datasheet

Order Details:

Order Number:
40670097_1_1

Customer Reference:
S120812

National Grid Reference:
440800, 411100

Slice:
A

Site Area (Ha):
0.31

Search Buffer (m):
1000

Site Details:

Cliff Close
Brierley
BARNSELY
South Yorkshire
S72 9HR

Client Details:

Mr D Simpson
Solmek Ltd
12 Yarm Road
Stockton on Tees
Cleveland
TS18 3NA



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	2
Hazardous Substances	-
Geological	3
Industrial Land Use	14
Sensitive Land Use	15
Data Currency	16
Data Suppliers	20
Useful Contacts	21

Introduction

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

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

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Peter Brett Associates Copyright Notice

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and the Health Protection Agency.

Report Version v47.0

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

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 3	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 3	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 11			2	3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 12	Yes	n/a	n/a	n/a
Mining Instability	pg 12	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 12	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 12		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 12		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 14		1	2	4
Fuel Station Entries					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt	pg 15		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					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 15	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Mr Bodnar Property Type: Mixed Farming Location: Fox Farm, Brierley Road, Shafton, BARNSLEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Deame Reference: C4454 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge: Land/Soakaway Environment: Receiving Water: Land Adjacent To The Proposed Dwelling Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SW (W)	860	1	439950 410850
	Nearest Surface Water Feature	A8NE (S)	366	-	440885 410708
	River Quality Name: Grimethorpe_Dike GQA Grade: Not Supplied Reach: Tom_Bank_Sewage_Work_Shafton_Bec Estimated Distance (km): 2.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A8NE (S)	328	1	440845 410739
	Water Abstractions Operator: Brierley Town Council Licence Number: 2/27/08/089 Permit Version: Not Supplied Location: Ornamental Fishing Lake, Addey Bottoms, GRIMETHORPE Authority: Environment Agency, North East Region Abstraction: Unclassified (Other) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SE (SE)	1715	1	441500 409500
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H3)- Coarse textured or moderately shallow soils which readily transmit non-absorbed pollutants and liquid discharges but which have some ability to attenuate absorbed pollutants because of their large clay or organic matter contents Map Sheet: Sheet 12 Vale of York Scale: 1:100,000	A13NW (SW)	0	1	440803 411101
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (SW)	0	2	440803 411101
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Licensed Waste Management Facilities (Locations) Licence Number: 60571 Location: 39 Brierley Road, Shafton, Bamsley, South Yorkshire, S72 8QW Operator Name: P J Plant & Equipment Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Metal Recycling Sites (Mixed) Licence Status: Transferred Issued: 18th March 1993 Last Modified: 11th March 2008 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SW (W)	898	1	439900 410900
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	9	440803 411101
	Local Authority Landfill Coverage Name: Wakefield Metropolitan Borough Council - Has not been able to supply Landfill data		836	10	440449 411897
3	Registered Waste Treatment or Disposal Sites Licence Holder: George Booth & Sons Licence Reference: WD20 B 635 MOD 2 Site Location: 39 Brierley Road, Shafton, BARNSLEY, South Yorkshire, S72 8QW Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Scrapyard Max 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: Licence Status: Operational as far as is knownOperational Dated: 1st March 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Ferrous Metal Scrap Max.Waste Permitted By Licence Motor Vehicle Batteries Non-Ferrous Metal Scrap Prohibited Waste: Liquid Wastes Waste N.O.S.	A12SW (W)	898	1	439900 410900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Upper Westphalian (including Pennant Measures)	A13NW (SW)	0	2	440803 411101
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (SW)	0	3	440803 411101
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	63	3	440803 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	88	3	440698 411037
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	91	3	440721 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	166	3	441000 411101
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	185	3	441000 411000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	323	3	440615 410790
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	356	3	441089 411372
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (SE)	370	3	441000 410751
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (SW)	373	3	440611 410735
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	383	3	440397 411190
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	383	3	441000 411478

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NE (W)	423	3	440361 411211
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	522	3	441313 410873
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	532	3	440635 410554
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (S)	534	3	440591 410567
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	584	3	440864 410483
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (SE)	614	3	441398 410838

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	655	3	441000 410442
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	716	3	440514 410402
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	747	3	441371 410562
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	754	3	441304 410492
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A9NW (SE)	756	3	441457 410653
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SW (S)	763	3	440760 410300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	774	3	440000 411101
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	784	3	440000 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	785	3	441000 411904
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	838	3	440999 411958
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	845	3	440000 410748
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	860	3	440803 412000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	867	3	440699 412000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	868	3	440937 412000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	870	3	440053 410593
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	879	3	441000 412000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	885	3	439919 410869
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	887	3	441000 410201

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	904	3	440000 410615
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	910	3	441000 410177
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	911	3	439872 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (W)	929	3	439898 410779
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	932	3	441235 411974
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (NE)	934	3	441183 412000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	945	3	440522 412039
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8SE (S)	947	3	440956 410130
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	957	3	441787 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NW (SW)	964	3	439913 410651
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NE (N)	968	3	441000 412091
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	988	3	440246 410236

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A12SW (W)	994	3	439815 410834
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SE (W)	996	3	439781 411000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A15SW (E)	1000	3	441830 411000
4	BGS Recorded Mineral Sites Site Name: Brierley Colliery Location: , Brierley, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 26027 Type: Underground Status: Ceased Operator: Ncb Barnsley Area Operator Location: Ncb Barnsley Area, Grimethorpe, Barnsley, South Yorkshire, S72 7ab Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	297	2	441012 410844
5	BGS Recorded Mineral Sites Site Name: Brierly Location: , Brierley, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 26012 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Upper Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12SE (W)	489	2	440299 410993
6	BGS Recorded Mineral Sites Site Name: Pudding Hill Location: , Brierley, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 10192 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Dalton Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (E)	942	2	441775 411055

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	BGS Recorded Mineral Sites Site Name: Windmill Hill Location: , Grimethorpe, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 26013 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Dalton Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SE (S)	972	2	441053 410127
8	BGS Recorded Mineral Sites Site Name: Shafton Colliery Location: , Shafton, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 26014 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11SE (W)	1000	2	439785 410980
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	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.	A13NW (SW)	0	4	440803 411101
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (SW)	0	-	440803 411101
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	2	440803 411101
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	2	440803 411101
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	2	440803 411101
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	104	2	440675 411065
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	208	2	440860 410866
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	2	440803 411101
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	2	440803 411101
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	104	2	440675 411065
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	208	2	440860 410866

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	2	440803 411101
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	104	2	440675 411065
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	240	2	440815 410824
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	2	440803 411101
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NW (SW)	0	2	440803 411101

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Contemporary Trade Directory Entries Name: J J Electrical Location: 1, Mackey Crescent, Brierley, Barnsley, South Yorkshire, S72 9LB Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (W)	249	-	440534 411187
10	Contemporary Trade Directory Entries Name: Hartley Engineering Location: 43, Barnsley Road, Brierley, Barnsley, South Yorkshire, S72 9JT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (W)	259	-	440515 411129
11	Contemporary Trade Directory Entries Name: Lilac Garage Location: Church Street, Brierley, Barnsley, South Yorkshire, S72 9JG Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (SE)	338	-	441149 410958
12	Contemporary Trade Directory Entries Name: A Rydown Location: 16, Norwood Drive, Brierley, Barnsley, South Yorkshire, S72 9EG Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	546	-	441377 411135
13	Contemporary Trade Directory Entries Name: Norwood Office Solutions Location: 43, Norwood Drive, Brierley, Barnsley, South Yorkshire, S72 9EG Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	557	-	441326 411371
13	Contemporary Trade Directory Entries Name: Norwood Quality Blinds Location: 43, Norwood Drive, Brierley, Barnsley, South Yorkshire, S72 9EG Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	557	-	441326 411371
14	Contemporary Trade Directory Entries Name: P J Plant & Equipment Ltd Location: 39, Brierley Road, Shafton, Barnsley, South Yorkshire, S72 8QW Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	877	-	439931 410855

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	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	A13SW (SW)	17	5	440770 411056
16	Areas of Adopted Green Belt Authority: Wakefield City Metropolitan District Council Plan Name: Wakefield Metropolitan District Unitary Development Plan First Alteration Status: Adopted Plan Date: 17th January 2003	A17NE (NW)	834	6	440455 411896
17	Nitrate Vulnerable Zones Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13NW (SW)	0	8	440803 411101

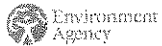
Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health	July 2012 September 2011 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North East Region	April 2012	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	June 2012	Quarterly
Integrated Pollution Controls Environment Agency - North East Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North East Region	April 2012	Quarterly
Local Authority Integrated Pollution Prevention And Control Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Wakefield City Metropolitan District Council - Environmental Health Doncaster Metropolitan Borough Council - Environmental Services	December 2011 October 2011 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Wakefield City Metropolitan District Council - Environmental Health Doncaster Metropolitan Borough Council - Environmental Services	December 2011 October 2011 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Wakefield City Metropolitan District Council - Environmental Health Doncaster Metropolitan Borough Council - Environmental Services	December 2011 October 2011 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	December 2011	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North East Region	June 2012	Monthly
Prosecutions Relating to Controlled Waters Environment Agency - North East Region	June 2012	Monthly
Registered Radioactive Substances Environment Agency - North East Region	April 2012	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	January 2011	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	January 2011	Annually
Substantiated Pollution Incident Register Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	April 2012 April 2012	Quarterly Quarterly
Water Abstractions Environment Agency - North East Region	April 2012	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	April 2012	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Source Protection Zones Environment Agency - Head Office	April 2012	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2012	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2012	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2012	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2012	Quarterly
Flood Defences Environment Agency - Head Office	May 2012	Quarterly
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2012 July 2012	Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2012 July 2012	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	April 2012 April 2012	Quarterly Quarterly
Local Authority Landfill Coverage Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	May 2012	Bi-Annually
Explosive Sites Health and Safety Executive	June 2012	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Wakefield City Metropolitan District Council Doncaster Metropolitan Borough Council Barnsley Metropolitan Borough Council - Planning Department	February 2012 May 2012 October 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Wakefield City Metropolitan District Council Doncaster Metropolitan Borough Council Barnsley Metropolitan Borough Council - Planning Department	February 2012 June 2011 October 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2012	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

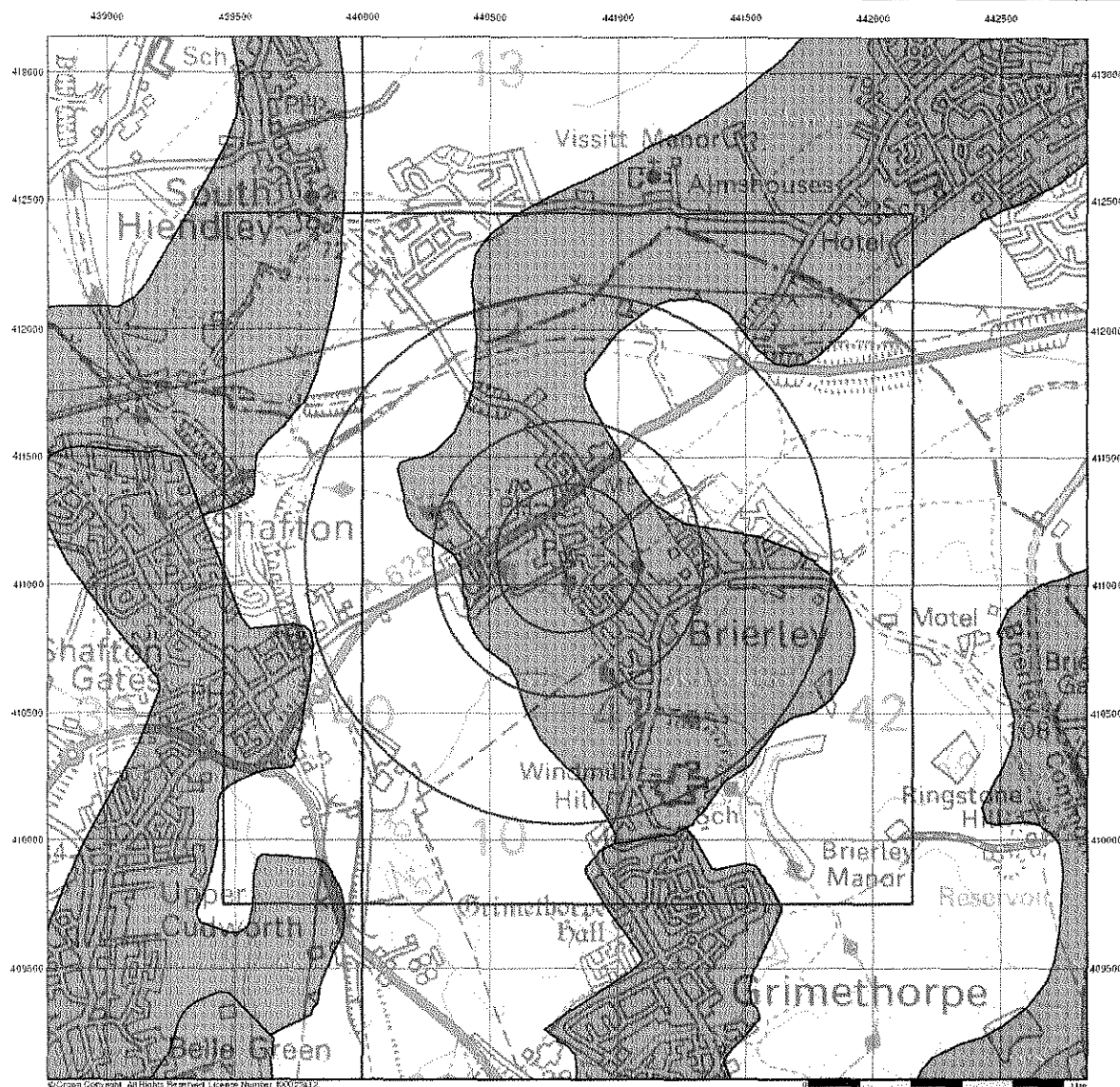
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	May 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2012	Quarterly
Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Barnsley Metropolitan Borough Council - Planning Department Doncaster Metropolitan Borough Council Wakefield City Metropolitan District Council	April 2012 April 2012 April 2012	As notified As notified As notified
Areas of Unadopted Green Belt Barnsley Metropolitan Borough Council - Planning Department Doncaster Metropolitan Borough Council Wakefield City Metropolitan District Council	April 2012 April 2012 April 2012	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	July 2012	Bi-Annually
Environmentally Sensitive Areas Natural England	February 2012	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2012	Bi-Annually
Marine Nature Reserves Natural England	February 2012	Bi-Annually
National Nature Reserves Natural England	February 2012	Bi-Annually
National Parks Natural England	February 2012	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Annually
Ramsar Sites Natural England	February 2012	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2012	Bi-Annually
Special Areas of Conservation Natural England	February 2012	Bi-Annually
Special Protection Areas Natural England	February 2012	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
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	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	Landmark Information Group Limited 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
4	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
5	Barnsley Metropolitan Borough Council - Planning Department Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
6	Wakefield City Metropolitan District Council Newton Bar, Wakefield, West Yorkshire, WF1 2TX	Telephone: 01924 306090 Fax: 01924 378532 Website: www.wakefield.gov.uk
7	Natural England Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	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
9	Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
10	Wakefield City Metropolitan District Council - Environmental Health Newton Bar, Wakefield, West Yorkshire, WF1 2TX	Telephone: 01924 306090 Website: www.wakefield.gov.uk
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer
(Highly Permeable)

Minor Aquifer
(Variably Permeable)

Non Aquifer
(Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

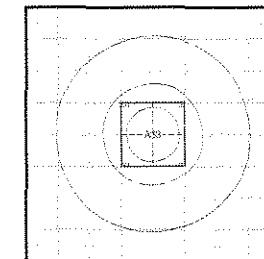
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

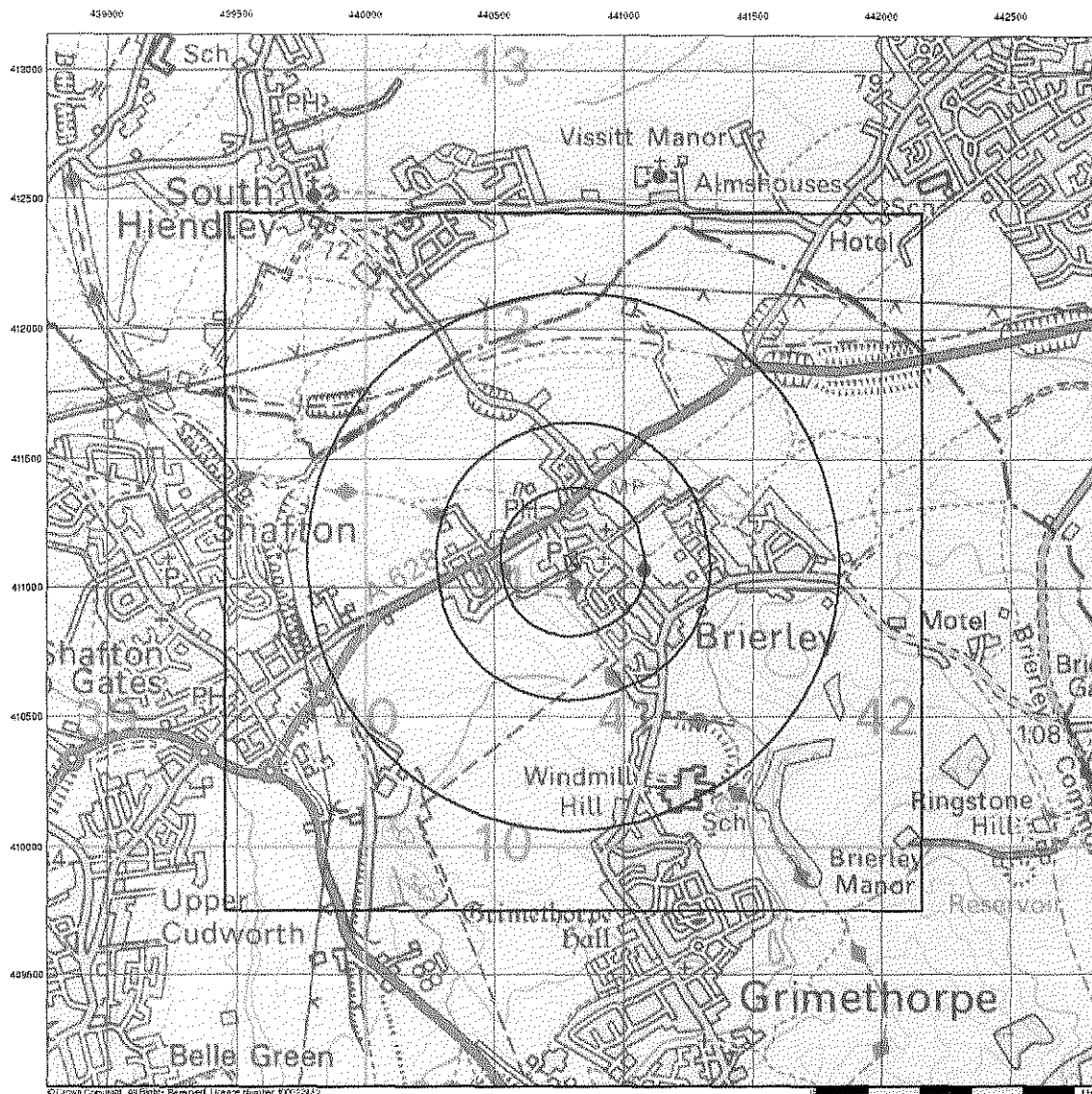
Order Number: 40670097_1.1
Customer Ref: S120812
National Grid Reference: 440800, 411100
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

Site Details

Cliff Close, Brierley, BARNSLEY, South Yorkshire, S72 9HR



Tel: 0844 654 9951
Fax: 0844 344 9951
Web: www.envirocheck.co.uk



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Bedrock Aquifer Designation

General

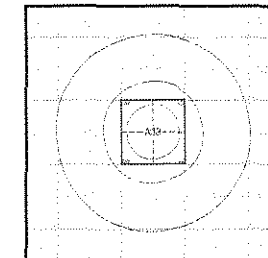
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

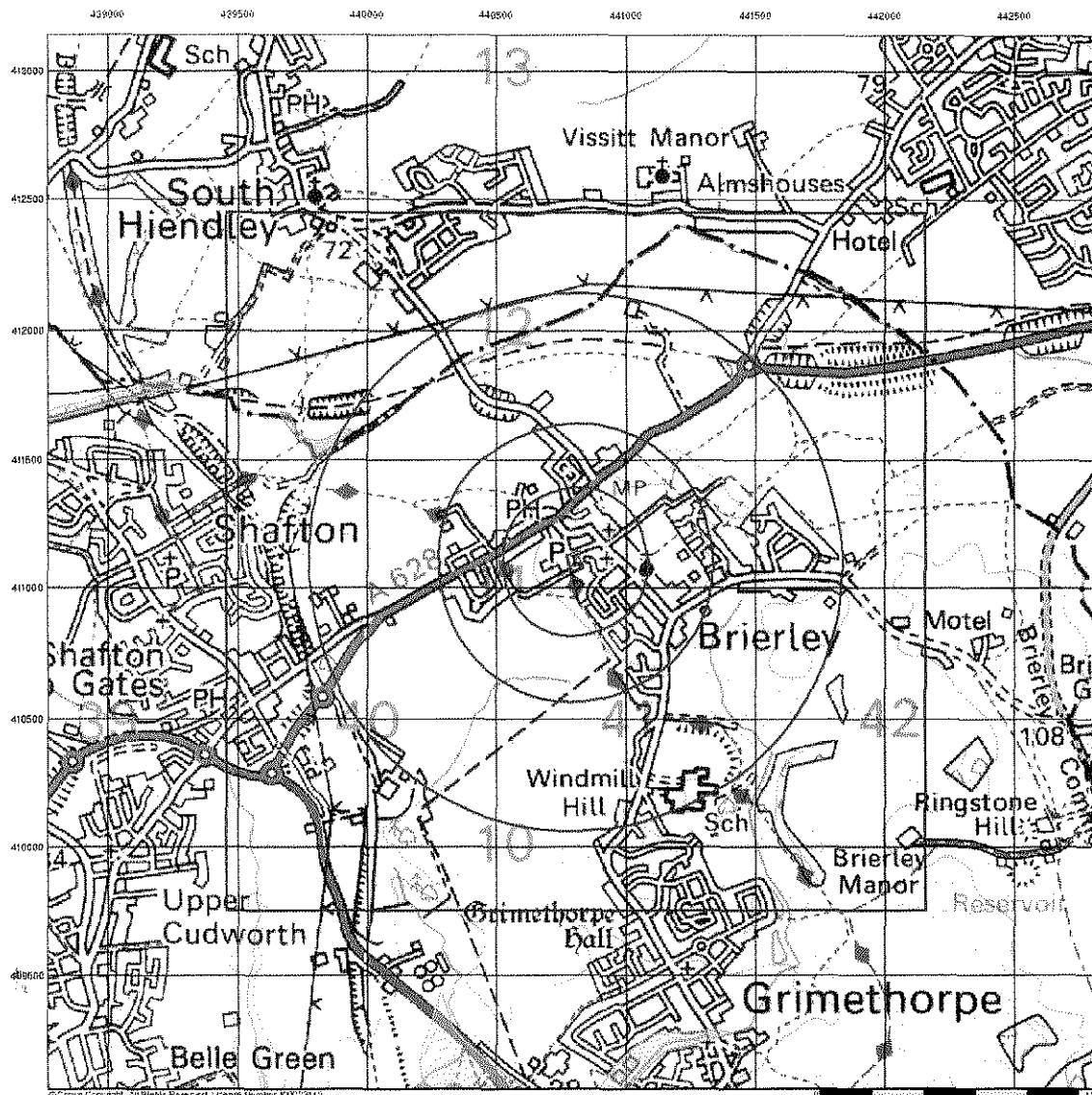
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 Search Buffer (m): 1000

Site Details

Cliff Close, Brierley, BARNSLEY, South Yorkshire, S72 9HR



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 Fax: 0844 844 9951
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Superficial Aquifer Designation

General

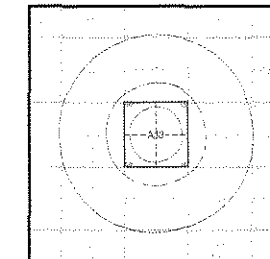
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

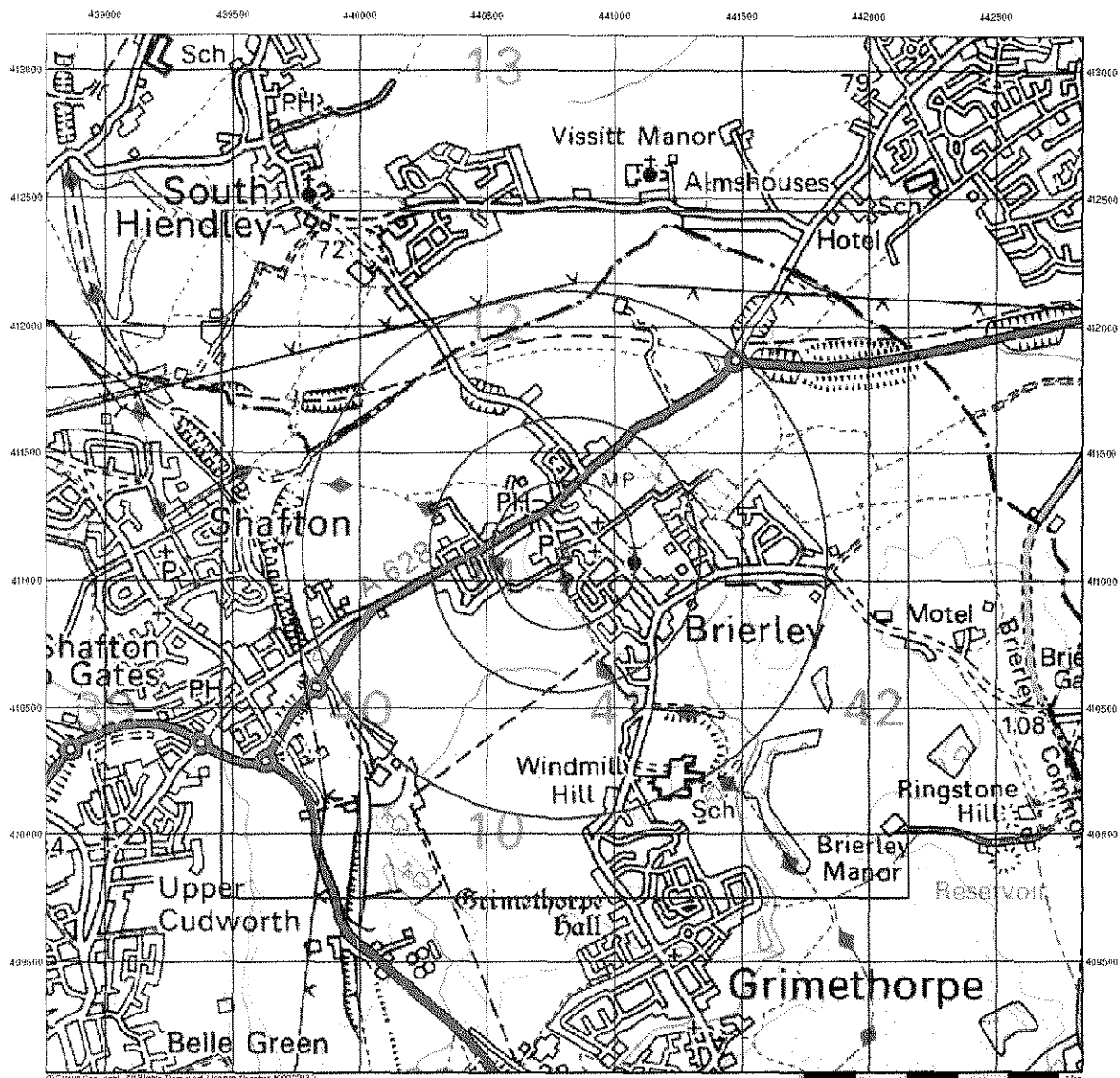
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 Customer Ref: S120812
 National Grid Reference: 440800, 411100
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

Cliff Close, Brierley, BARNSLEY, South Yorkshire, S72 9HR



Tel: 0844 254 2052
 Fax: 0844 961 9951
 Web: www.envirocheck.co.uk



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Source Protection Zones

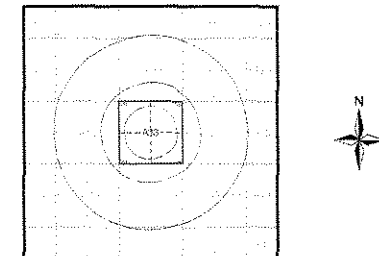
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

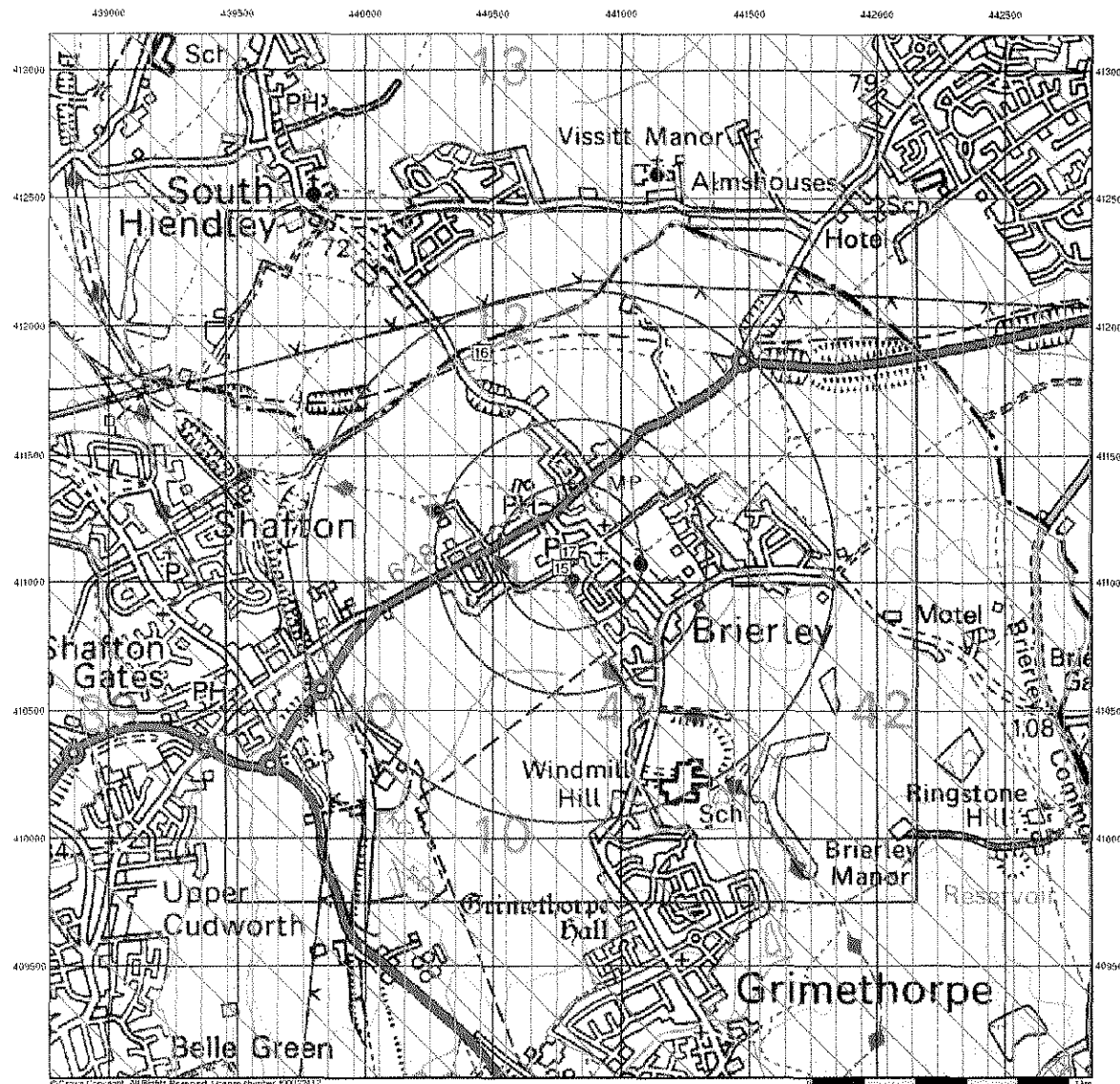
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 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

Cliff Close, Brierley, BARNSLEY, South Yorkshire, S72 9HR



Tel: 0844 654 9552
 Fax: 0844 341 9551
 Web: www.envirocheck.co.uk



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Sensitive Land Uses

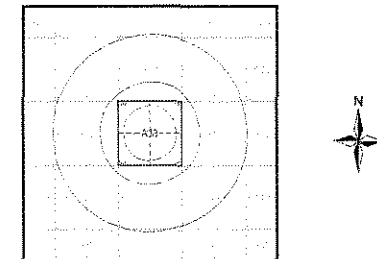
General

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

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
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 40670097_1_1
 Customer Ref: S120812
 National Grid Reference: 440800, 411100
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

Cliff Close, Brierley, BARNSELY, South Yorkshire, S72 9HR



Mo: 0144 954 9552
 Fax: 0144 954 9551
 Web: www.envirocheck.co.uk

General

- | Geocoded Site | Geocoded Building | Geocoded Reference Point | Map ID |
|----------------------------------|-----------------------|--------------------------|--------|
| ☒ | ☐ | X | |

Agency and Hydrological

- Contaminated Land Register Entry or Notice
 IBOS Recorded Landfill Site (Location)

Contaminated Land Register Entry or Notion	AKIS Record

- [illegible]

[illegible]

- | | |
|--|--|
| <ul style="list-style-type: none"> Registered and/or Endorsing Sponsors River Network or Watershed Priority River Quality Sampling Point Sustainable Solutions Initiative Projects | <ul style="list-style-type: none"> Registered or Landfill Site (Risk Reduction to 100%) Registered Vessel 1 (and/or 2) (Location) Registered Vessel 1 (and/or 2) Registered Vessel Treatment or Associated Site (Location) |
|--|--|

USING THE ABOVE

- ## Hazardous Substances

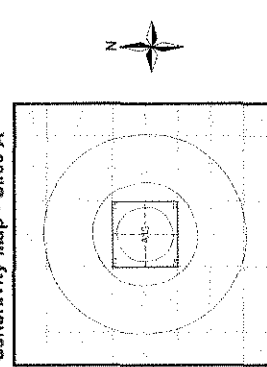
Geological

- ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 05-10-2011 BY 60322 UCBAW

Industrial Land Use

- ★ Contemporary Trade Directory Entry

Life Sensitivity Man - Slice A



Order Details

Order Number: 40670097 1 1

Customer Ref: S120812

International Grid Reference: 440800, 411100

Alice:

White Area (Ha): 0.31

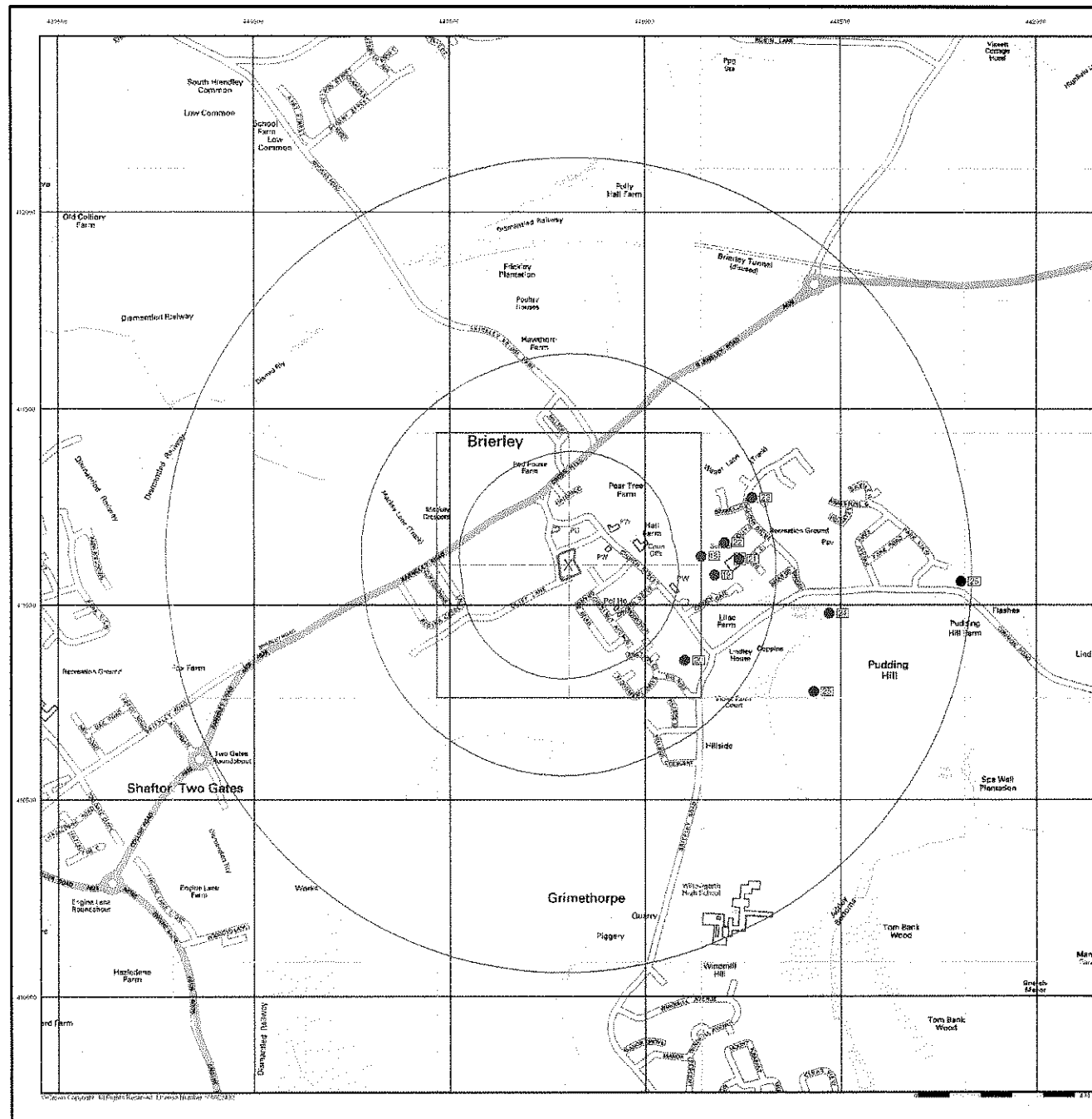
Search buffer (m): 1000

Site Details

Willif Close, Brierley, BARNSLEY, South Yorkshire, S72 9HR



0344 614 9852
0344 044 6481
0344 044 6481



General

- Detailed Site
- Specified Buffer(s)
- X Boring Reference Point
- Map E
- Series of Type of Location

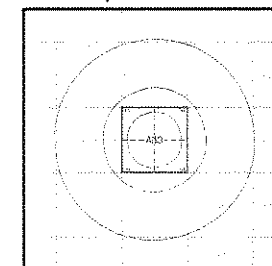
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole.csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

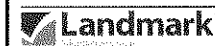


Order Details

Order Number: 40670097_1_1
 Customer Ref: S120812
 National Grid Reference: 440800, 411100
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

Cliff Close, Brierley, BARNSLEY, South Yorkshire, S72 9HR



Tel: 0344 621 9652
 Fax: 0344 621 9991
 Web: www.envirocheck.co.uk

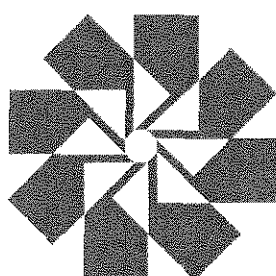
APPENDIX 4:

Mining Report

David Bellis Consulting Surveyors Ltd
8, Mornington Terrace
Harrogate
North Yorkshire
HG1 5DH

(DX 720352 Harrogate)

T: 01423 529911 F: 01423 529922
E: contact@coalsearch.plus.com
W: www.coalsearch.plus.com



COAL SEARCH PLUS +

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By

David Bellis

CONSULTING SURVEYORS

Coal Mining Search Report

Incorporating Cheshire Brine Enquiries



10 Aug 12

Coal Mining Search Report

Incorporating Cheshire Brine Enquiries

Page 1 / 9

Serial Number 267858

Client detail :

Solmek
(Site Investigations) Ltd
12 Yarm Road
Stockton on Tees
Cleveland
TS18 3NA

CoalSearchPlus+ by David Bellis Consulting
Surveyors Ltd
8 Morningson Terrace
Harrogate
North Yorkshire
HG1 5DH
(DX 720352 Harrogate)

Tel 01423 529911
Fax 01423 529922

Search produced by M JPeace

Property details:

Site at
Cliffe Close
Brierley
Barnsley
S72 9HR

Your ref : S120812

Purchaser :

Vendor :

In accordance with your instructions received 07 Aug 2012 we have inspected plans and records of coal mine workings and have made enquiries with respect to Cheshire brine extraction in relation to the above property and can report as follows :

1. **SEAM DETAILS FOR PAST UNDERGROUND COAL MINING** : In relation to the property the undermentioned seam(s) have been worked within the likely zone of physical influence on the surface.

Seam	Depth (m)	Sect (cm)	Date	Remarks
Shafton	295	180	pre 1960	Subjacent
Newhill	585	119	1987	Adjacent
Barnsley	761	190	1937	Adjacent
Parkgate	1007	182	1954	Adjacent

2. **SEAM DETAILS FOR CURRENT AND FUTURE UNDERGROUND COAL MINING** : The undermentioned seam(s) are currently being worked, or licenses to work are being determined, or have been granted to work, within the likely zone of physical influence on the surface in relation to the property.

Seam	Depth (m)	Sect (cm)	Date	Remarks
				Coal in reserve - no workings currently planned.

3. **UNDERLYING GEOLOGY** :

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The property is situated in an area of Sandstone over Middle Coal Measures, shales and mudstones.

There are no faults or abnormal features relevant to the property.

4. OPENCAST COAL MINING :

Past Opencast Workings : The property is not situated within the boundary of a former opencast coal mining site.

Present Opencast Workings : The property is not situated within 200m of the boundary of a currently operating opencast coal mining site.

Future Opencast Workings : The property is not situated within 800m of the boundary of an opencast site for which a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

5. SHAFTS, ADITS (MINE ENTRIES) AND ADDITIONAL INFORMATION :

We have no knowledge of any shafts or adits within 20 metres of the property or the boundary of the property.

There are no tips or lagoons in the vicinity of the property.

There are possible ancient shallow coal mining workings within the likely zone of influence on the surface in the vicinity of the property, for which no accurate plans or records exist.

6. NOTICES IN RELATION TO FUTURE COAL MINING ACTIVITY :

We have no knowledge of any intention to work coal by underground methods within influencing distance on the surface in the vicinity of the property for which notices have been issued under the Coal Mining Subsidence Act 1991.

7. PAST COAL MINING RELATED SUBSIDENCE :

Our investigations have shown no evidence of coal mining related subsidence claims in relation to the property in the past 10 years.

8. CONCLUSION (COAL MINING) : In the light of the above facts we conclude that in relation to coal mining :

Old workings are present but all settlement is likely to have completed long ago.
In our opinion it is unlikely that coal will be worked in the foreseeable future.

COAL MINING RISK LEVEL : We recommend that the transaction is treated as :

Where this report is to be used for development purposes particular attention is drawn to the paragraphs below concerning the ownership of in situ coal, coal workings and the risks from mine gases.

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Please note that the overall coal mining risk level above is based upon an assessment of the detailed information contained in the body of the report. The risk assessment must be used in conjunction with the detailed report.

If development of the property is being considered then all necessary enquiries and investigations should be completed prior to the commencement of works to ensure that proposals follow good engineering practice for development in mining areas. The Coal Authority has ownership of in situ coal, coal mines (both current and disused) and coal mine shafts and adits. Activities that intersect, enter or disturb any of the Coal Authority's interests require the written permission of the Authority.

Any development proposals should consider risks to the development, or adjacent property, of generating or displacing underground gases where coal seams or former mining works are disturbed. The need for effective measures to prevent gasses entering public properties should be assessed and properly addressed. These actions are necessary due to the public safety implications of development in these circumstances.

CHESHIRE BRINE EXTRACTION INFORMATION :

The property lies outside the Cheshire Brine Compensation District as prescribed by the Cheshire Brine Pumping (Compensation for Subsidence) Act 1952.

With respect to coal mining there is nothing to prevent a claim being made under the provisions of the Coal Mining Subsidence Act 1991 and subsequent legislation, but it must not be inferred that the Coal Authority or their licensees will necessarily accept that any damage has been caused as a result of mining subsidence.

If you require any further information or amplification please contact CoalSearchPlus+ on 01423 529911 or via our website www.coalsearch.plus.com.

This report is prepared in accordance with the CoalSearchPlus+ terms and conditions as published on the CoalSearchPlus+ website (www.coalsearch.plus.com) on the date of issue of this report.

This is a Coal Mining Search Report and is not to be interpreted as being part of an Environmental Assessment of the property.

We cannot be held responsible for the accuracy of the information provided to us by third party organisations.

The information and/or material supplied is composed from data based in many cases on measurements and records of various standards of reliability and age. We cannot be held responsible for the accuracy of such information.

This search report is based upon the privately owned CoalSearchPlus+ mining record database and plans and records publicly available at the time of inspection from the Coal Authority, including British Geological Survey and Ordnance Survey data. Organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining (subsidence) Act 1991 and the Coal Industry Act 1994.

Coal Authority Address : The Coal Authority, 200 Lichfield Lane Berry Hill, Mansfield, Nottinghamshire, HG18 4RG
British Geological Survey Address : British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham NG12 5GG

The information contained in this report relates to the property address given by the individual or organisation ordering the report. Where a plan indicating the property location and boundary is supplied with the instruction the report is based on that information. Where no plan is supplied the report is based on the property location as defined in publicly available mapping data. At all times it remains the responsibility of the instructing organisation or individual to define the boundary of the property.

Serial Number 267858**Additional notes applicable to Residential Coal Mining Reports only :**

David Bellis Consulting Surveyors Ltd is not aware of any personal or business relationship between the person conducting or preparing the search and any person involved in the sale of the property.

This report is a desk study of existing published geological and coal mining records and the CoalSearchPlus+ coal mining database. In order to compile this report enquiries have been made relating to the following :

Past Coal Mining – the existence of any previously worked seams of coal within influencing distance on the surface in relation to the property including an indication of the location, depth and age of the workings,

Present Coal Mining - the existence of any currently worked seams of coal within influencing distance on the surface in relation to the property including an indication of the location, depth and age of the workings. The existence of coal that could be worked at some time in the future will be enquired into and detail of any relevant licenses disclosed where available.

Underlying Geology - the underlying geology of the property will be reviewed and briefly described in relation to coal mining.

Opencast Coal Mining - the existence of past present and future opencast coal mining, specifically :

- if the property is situated within the boundary of a former opencast site. In the case of old opencast workings it must be understood that records are often unclear regarding the site boundary and/or worked areas. Published records will be reviewed to give our opinion of the existence of relevant former opencast coal workings.
- if the property is situated within 200m of the boundary of a currently operating opencast site.
- if the property is situated within 800m of the boundary of an opencast for which either a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

Shafts, Adits (Mine Entries) and Additional Information – the existence of any mine entries within 20m of the property or the boundary of the property and its associated land and buildings (the definition of the boundary of the property is the responsibility of the individual or organisation ordering this report). Where a mine entry is found to exist the approximate location of the mine entry will be indicated on a plan to be provided by the instructing organisation or individual. The existence of unworked coal will be enquired into and our opinion regarding the likelihood of it being worked at some time in the past will be given where relevant. Any other relevant coal mining related features discovered will be noted.

Notices in relation to future coal mining activity – the existence of notices indicating an intention to work coal by underground methods in the future.

Past coal mining related subsidence – if any publicly available records indicate coal mining related subsidence affecting the property in the past 10 years.

Coal Mining Risk Level – the opinion of David Bellis Consulting Surveyors of the risk posed to the property from coal mining given all the information contained in the report. The risk to the property is given in relation to the majority of the housing stock in the immediate area.

Cheshire Brine – the location of the property in relation to the Cheshire Brine Compensation District and any relevant information to the property regarding brine extraction.

Additional information, including answers to many frequently asked questions, can be found on the CoalSearchPlus+ website, www.coalsearch.plus.com

Complaints Procedure

David Bellis Consulting Surveyors Ltd is registered with the Property Codes Compliance Board as a subscriber to the Search Code. A key commitment under the Code is that firms will handle any complaints both speedily and fairly.

If you want to make a complaint, we will:

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

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306, E-mail: admin@tpos.co.uk

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

Complaints should be sent to:

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Mr M. Peace, Director, David Bellis Consulting Surveyors Ltd, 8 Mornington Terrace, Harrogate, North Yorkshire, HG1 5DH
Tel : 01423 529911 Fax : 01423 529922 Email : contact@coalsearch.plus.com

Date : 10 Aug 2012

Signed :



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Serial Number 267858**Important Consumer Protection Information**

This search has been produced by David Belis Consulting Surveyors Ltd, 8 Mornington Terrace, Harrogate, HG1 5DH (T: 01423 529911, F: 01423 529922, E: contact@coalsearch.plus.com) which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered firms maintain compliance with the Code.

The Search Code:

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

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

The Code's core principles

Firms which subscribe to the Search Code will:

- Display the Code logo prominently on their search reports.
- Act with integrity and carry out work with due skill, care and diligence.
- At all times maintain adequate and appropriate insurance to protect consumers.
- Conduct business in an honest, fair and professional manner.
- Handle complaints speedily and fairly.
- Ensure that all search services comply with the law, registration rules and standards.
- Monitor their compliance with the Code.

Complaints

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

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

TPOs Contact Details:

The Property Ombudsman scheme
Milford House
45-53 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Email: admin@tpos.co.uk

You can get more information about the PCCB from www.propertycodes.org.uk.

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

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David Bellis Consulting Surveyors Ltd and CoalSearchPlus+ Terms and Conditions (Available in large print by request)

1. Definitions.
 - a) The Service Provider is David Bellis Consulting Surveyors Ltd, trading as CoalSearchPlus+.
 - b) The Applicant is the Individual, Organisation, or appointed officer of said Organisation placing a Request with the Service Provider.
 - c) The Third Party Provider is any Organisation from which the Service Provider obtains data and/or information on behalf of the Applicant in the normal course of fulfilling the Applicants Request.
 - d) The request is a formal Request by the Applicant with CoalSearchPlus+ to retrieve specific data and/or information.
2. CoalSearchPlus+ accept Requests only on the basis that the Applicant is acting as a principal and is directly liable for payment of our invoice or account.
3. It is the policy of CoalSearchPlus+ to observe confidentiality with regard to the identity and affairs of our customers to the extent permitted by law, but, in common with other service providers, we may be required exceptionally to disclose information to governmental and other public authorities.
4. The placing of a Request by the Applicant with CoalSearchPlus+ confirms acceptance of these terms and conditions.
5. Any Order Form produced by CoalSearchPlus+, either printed or published on the CoalSearchPlus+ website, is an invitation to treat. The Applicant makes an offer to buy from CoalSearchPlus+ by the submission of a Request, subject to clause 10. Acceptable modes of transmission for a Request are facsimile (fax), telephone, electronic mail(e-mail), online transmission via the CoalSearchPlus+ website only, Document Exchange (DX), Royal Mail or courier appointed by the Applicant.
6. Orders will be accepted on order forms other than CoalSearchPlus+ forms however these will be accepted under the standard CoalSearchPlus+ terms and conditions only, subject to Clause 10.
7. CoalSearchPlus+ reserves the right to refuse any Request.
8. CoalSearchPlus+ reserves the right to cancel any Request at any time.
9. Proof of transmission of a Request by the Applicant does not constitute proof of receipt by CoalSearchPlus+.
10. It is the responsibility of the Applicant to ensure the accuracy, legibility, clarity and completeness of all data and/or information provided to CoalSearchPlus+ as part of the Request, including but not limited to, names, numbers, addresses, location plans, and boundary plans. This applies whether the Request is submitted on CoalSearchPlus+ order forms either printed or published on the CoalSearchPlus+ website or on the Applicants own order form.
11. CoalSearchPlus+ may request additional relevant data and/or information from the Applicant in the course of fulfilling a Request, including, but not limited to, names, numbers, addresses, location plans, and boundary plans.
12. CoalSearchPlus+ may request clarification of data and/or information supplied by the Applicant.
13. If, subsequent to Clause 11, and/or Clause 12., requested data and/or information is not provided and/or clarified, CoalSearchPlus+ cannot be held responsible for any resultant loss or delay.
14. If, subsequent to Clause 11, and/or Clause 12., requested data and/or information is not provided and/or clarified within a reasonable period of time, CoalSearchPlus+ reserves the right to cancel the Request in whole or in part. The Applicant remains liable for all fees, Taxes and Disbursements accrued prior to the cancellation.
15. CoalSearchPlus+ reserves the right to subcontract data and/or information retrieval to selected Organisations and/or Individuals. CoalSearchPlus+ is not required to reveal the identity of its Subcontractors.
16. CoalSearchPlus+ will, in the process of fulfilling the request, retrieve data and/or information from publicly and/or commercially available sources and the CoalSearchPlus+ mining database. The sources of data used will primarily be data held by The Coal Authority under an agreement with the Health and Safety Executive, data owned by the British Geological Survey and the CoalSearchPlus+ database.
17. A CoalSearchPlus+ mining report is a report of the interpretation of the data sources in 16. made by CoalSearchPlus+ staff.
18. CoalSearchPlus+ coal mining search reports are based upon the plans and records available from data sources detailed in 16. at the time the report was produced. It should be understood that third party organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining Subsidence Act 1994. CoalSearchPlus+ cannot be held responsible for changes to the future proposals and intentions of Third Parties.
19. The information and/or material supplied in a CoalSearchPlus+ coal mining report is composed from data based, in many cases, on measurements and records of various standards of reliability and age. In some instances (usually relating to older records) it is necessary for CoalSearchPlus+ to make assumptions regarding the 'best plot' position of mining features. For these reasons users of CoalSearchPlus+ reports should take the position of mining features detailed in reports to be indicative only.
20. The data and/or information that a coal mining search report is based on is constantly being updated. A CoalSearchPlus+ coal mining search report is based on the most up to date information available at the time that the report is produced however it cannot be guaranteed that the information and/or data will not become obsolete at some time in the future. Responsibility for the supply of accurate and up to date information to CoalSearchPlus+ lies with the data supplying organisations listed in 16.

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21. A CoalSearchPlus+ coal mining search report relates only to coal mining and minerals worked in relation to coal mining. Other reports may be required in relation to other minerals.
22. A CoalSearchPlus+ coal mining search report is not a substitute for site investigation or a mining survey. Depending on the content of a coal mining search report, or whether development is intended, the Applicant must decide whether a site investigation or mining survey is required.
23. CoalSearchPlus+ coal mining reports comply with the Search Code.
24. All CoalSearchPlus+ reports are covered by professional indemnity insurance. The content of CoalSearchPlus+ coal mining search reports does not prevent any future claim being made by the Applicant against the Coal Authority in respect of coal mining related subsidence.
25. Any liability in the instance of negligence by CoalSearchPlus+ or its employees in the interpretation of coal mining data and/or the production and provision of coal mining reports will be limited to the extent of the CoalSearchPlus+ Professional Indemnity Insurance or the value of the loss caused by the negligence, whichever is the lower.
26. All CoalSearchPlus+ coal mining search reports give the information detailed in the services section of the CoalSearchPlus+ website and summarised in the report. Further explanation of this information is available in the Glossary and/or the Frequently Asked Questions areas of the CoalSearchPlus+ website. Alternatively contact CoalSearchPlus+ who will be happy to explain the content of a report.
27. The Request is fulfilled when all reports, data and/or information requested by the Applicant have been retrieved and/or compiled by CoalSearchPlus+ and delivered by electronic mail (e-mail) or fax or post or document exchange (DX) or a combination of these methods as required by the Applicant. Alternative delivery arrangements are at the discretion of CoalSearchPlus+.
28. If Requests for multiple reports, data and/or information relating to multiple addresses were made on a single order form these will be fulfilled individually by the delivery of the reports, data and/or information relating to each individual address being treated as an individual Request.
29. CoalSearchPlus+ is not responsible for any loss or misdelivery of retrieved data and/or information caused by failure of Document Exchange (DX), Royal Mail or internet service provider. Most retrieved data and/or information is archived by CoalSearchPlus+ and a copy may be requested by the Applicant. If the data and/or information could not be archived CoalSearchPlus+ reserves the right to treat the request as a new Request.
30. Delivery, by whatever agreed means, will be accompanied by an invoice. Delivery by electronic mail may be followed up with a paper invoice by post or DX. Where Applicants have agreed account facilities with CoalSearchPlus+ invoicing may be on a monthly basis. In all cases the Applicant agrees to provide CoalSearchPlus+ with remuneration for the full amount shown on the invoice, including all Fees, Taxes and Disbursements.
31. The Applicant will be liable for payment of the full invoice amount within 14 days from the date of receipt of the invoice. CoalSearchPlus+ reserve the right to charge for costs and expenses incurred in recovering late payments and to charge interest at the rate of 8% above the Bank of England base rate per annum for the full period that the payments are overdue.
32. Where full payment of the invoice is not made by the Applicant within 14 days from receipt of the invoice CoalSearchPlus+ reserve the right to withdraw account facilities from the Applicant and cancel any individual agreements concerning fees or other Terms and Conditions that may have been made between the Applicant and CoalSearchPlus+.
33. Where possible the Applicant will receive Advance Notice of the cost of the Request, including all Fees, Taxes and Disbursements, prior to receipt of the invoice. This advance notice will take the form of the price for the service requested as published on the CoalSearchPlus+ website, or the price as individually agreed between CoalSearchPlus+ and the Applicant.
34. Additional Fees, Taxes and Disbursements may arise during the course of data and/or information retrieval, over and above Advance Notice costs as in clause 33. The Applicant is liable for any such additional costs. Where possible, the Applicant is notified of additional costs prior to fulfilment of the Request.
35. If the Applicant shall pay in advance of receipt of the invoice, then the Applicant remains liable for any underpayment.
36. Any overpayment on the part of the Applicant will be refunded. Arrangements for refunds are agreed on a case-by-case basis, through discussion between CoalSearchPlus+ and the Applicant.
37. The Applicant may cancel the Request in whole or in part at any time prior to Clause 27.
38. If the Applicant cancels the Request in whole or in part prior to Clause 27, the Applicant remains liable for all Fees, Taxes and Disbursements already accrued prior to the Cancellation.
39. CoalSearchPlus+ accept no liability for any loss incurred by the Applicant or the Applicant's client where the Applicant is acting as an agent for a client, due to late fulfilment and delivery of the Request.
40. CoalSearchPlus+ accept no liability for any loss to the Applicant, or the Applicant's client where the Applicant is acting as an agent for a client, due to any negative outcome of a report provided in the process of the correct and accurate fulfilment of the Request.
41. Any disputes relating to the provision of coal mining search reports should be addressed to the Practice Principal, CoalSearchPlus+ in the first instance. Disputes will be settled according to the CoalSearchPlus+ complaints procedure detailed in each report.
42. Third Party and subcontractor Terms and Conditions shall apply in addition to these clauses. Should any conflict arise between CoalSearchPlus+ Terms and Conditions and Third Party or Subcontractor Terms and Conditions, then CoalSearchPlus+ Terms and Conditions prevail unless and until CoalSearchPlus+ expressly states otherwise in writing and/or courts of England and Wales establish otherwise.
43. No variation to these Terms and Conditions is effective unless and until CoalSearchPlus+ expressly agrees in writing.

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44. CoalsearchPlus+ reserves the right to alter these terms and conditions as appropriate, without notice, at any time. Such amended Terms and Conditions will become effective upon publication on the CoalSearchPlus+ website.
45. These Terms and conditions are subject to English Law and the exclusive jurisdiction of the courts of England and Wales.

APPENDIX 5:

Notes on Limitations

These conditions accompany our tender and supercede any previous conditions issued. Solmek will prepare a report solely for the use of the Client (the party involved) and its agent(s). No reliance should be placed on the contents of this report, in whole or in part by 3rd parties. The report, its content and format and associated data are copyright, and the property of Solmek. Photocopying of part or all of the contents, transfer or reproduction of any kind is forbidden without written permission from Solmek. A charge may be levied against such approval, the same to be made at the discretion of Solmek. Solmek was a trading name of Hymas Geoenvironmental Ltd.

Solmek cannot be held liable and do not warrant, or otherwise guarantee the validity of information provided by third parties and subsequently used in our reports. Solmek are not responsible for the action negligent of otherwise of subcontractors or third parties.

Site investigation is a process of sampling. The scope and size of an investigation may be considered proportional to levels of confidence regarding the ground and groundwater conditions. The exploratory holes undertaken investigate only a small volume of the ground in relation to the overall size of the site, and can only provide a general indication of site conditions. The opinions provided and recommendations given in this report are based on the ground conditions as encountered within each of the exploratory holes. There may be different ground conditions elsewhere on the site which have not been identified by this investigation and which therefore have not been taken into account in this report. Reports are generally subject to the comments of the local authority and Environment Agency. The comments made on groundwater conditions are based on observations made at the time that site work was carried out. It should be noted that mobile contamination, ground gas levels and groundwater levels may vary owing to seasonal, tidal and/or weather related effects. Solmek cannot be held liable for any unrecorded or unforeseen obstructions between exploratory boreholes and trial pits. This includes instances where previous structures on the site (buried man made structures) or the presence of boulder clay (cobbles and/or boulder obstructions) have been anticipated. All types of piling operations should make allowance for obstructions within the construction budget to accommodate this. Unrecorded ancient mining may occur anywhere where seams that have been worked and influence the rock and soil above. Dissolution cavities can occur where gypsum or chalk is present. Rotary drilling is the recommended technique to prove the integrity of the rock.

Where the scope of the investigation is limited via access to information, time constraints, equipment limitations, testing, interpretation or by the client or his agents budgetary constraints, elements not set out in the proposal and excluded from the report are deemed to be omitted from the scope of the investigation.

Desk studies are generally prepared in accordance with RICS guidelines. Environmental site investigations are generally undertaken as 'exploratory investigations' in accordance with the definitions provided in paragraph 5.4 of BS 10175:2001 in order to confirm the conceptual assumptions. You are advised to familiarize yourself with the typical scope of such an investigation. No pumping of water will be undertaken unless a licence or facilities/equipment have been arranged by others.

Where the type, number or/and depth of exploratory hole is specified by others, Solmek cannot and will not be responsible for any subsequent shortfall or inadequacy in data, and any consequent shortfall in interpretation of environmental and geotechnical aspects which may be required at a later date in order to facilitate the design of permanent or temporary works.

All information acquired by Solmek in the course of investigation is the property of Solmek, and, only also becomes the joint property of the Client only on the complete settlement of all invoices relating to the project. Solmek reserve the right to use the information in commercial tendering and marketing, unless the Client expressly wishes otherwise in writing. The quoted rates do not include VAT, and payment terms are 30 days from dispatch of invoice from our offices. Quotes are subject to a site visit.

We have allowed for 1 mobilisation and normal working hours unless otherwise stated. The scope of the investigation may be reviewed following the desk study and/or fieldwork. The presence or otherwise of Japanese Knotweed or other invasive plants can be difficult to identify especially during winter months. If Japanese Knotweed or other invasive species are suspect, it should be confirmed by an ecologist. We have not allowed for acquiring services information, and cannot be responsible for damage to underground services or pipes not shown to us or not clearly shown on plans. Costs incurred will be passed on to you, and in commissioning Solmek you understand and accept that you/your agent have a contractual relationship with Solmek & you accept this. Our rates assume unobstructed, reasonably level and firm access to the exploratory positions and adequate clear working areas and headroom. We have priced on the basis that you or your client have the necessary permissions, wayleaves and approvals to access land. All boreholes and pits are backfilled with arisings except where gas monitoring pipes are installed with stopcock covers. Solmek are not responsible for any uneven surfaces as a result of siteworks and rutting and backfilled excavations may require re-levelling and/or making good by others after fieldwork is complete, and Solmek has not allowed for this. No price has been provided or requested for a return visit to remove pipework and covers. Hourly rates apply to consultancy only and do not include expenses unless otherwise shown. If warranties are required, legal costs incurred will be passed on to you assuming Solmek agree to complete such warranties, modified or otherwise and you understand and agree to pay all costs.

We reserve the right to pursue full payment of the invoice prior to release of any information including reports. We advise you/your client that we may elect to pursue our statutory rights under late payment legislation, and will apply 8% to the base rate for unreasonably late payments. Solmek are exempt from the CIS Scheme. Solmek offer to undertake work only in strict accordance with conditions covered by our current insurances, which are available for inspection. Solmek are not responsible for acts, negligent or otherwise of subcontractors and as a matter of policy cannot indemnify any other parties. Professional indemnity insurance is limited to ten times the invoice net total except where stated otherwise by Solmek. Solmek give notice that consequential loss as a direct or indirect result of Solmek's activities or omission of the same are excluded.