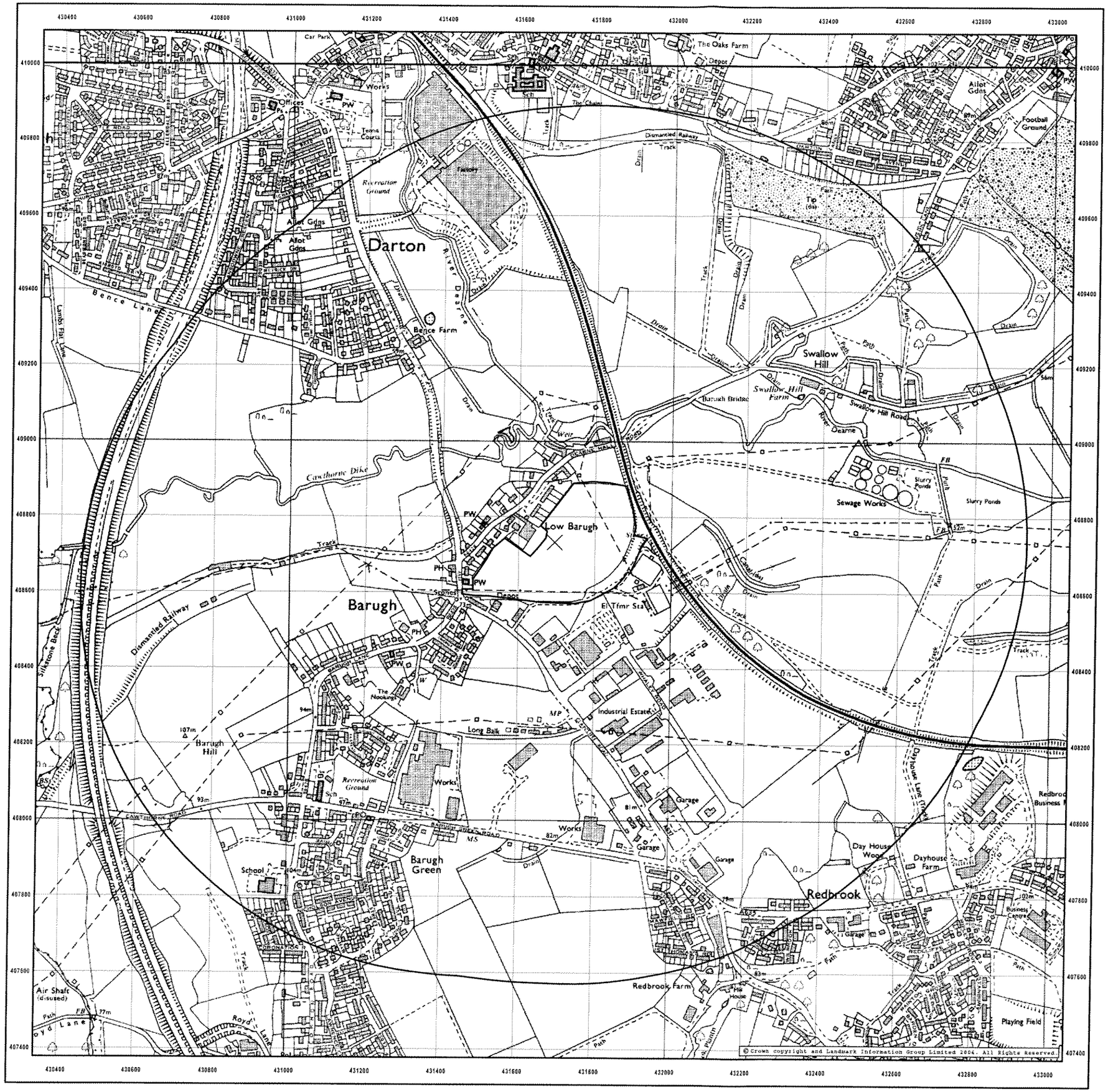


Envirocheck®

A Landmark® product

CLIENT DETAILS — Envirocheck Order No. EC19255111_1_1 (19-Apr-2006 14:10)

Customer Ref: MR R Howells,C1277
Sirius Geotechnical & Environmental
Suite 3 Bowcliffe Grange Bowcliffe Hall Estate
Leeds
LS23 6LP

SITE DETAILS — **Grid Reference** 431690 408730

Barugh Green

Barnsley
S75 1JJ

Historical Map Legend

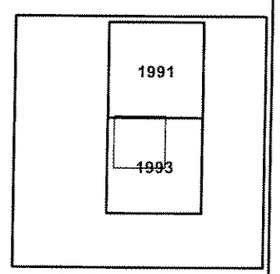
- Chalk Pit, Clay Pit, or Quarry
- Gravel Pit
- Sand Pit
- Disused Pit or Quarry
- Refuse or Slag Heap
- Non-coniferous Trees
- Coniferous Trees
- Scrub
- Lake, Loch or Pond
- Pylon
- Electricity Transmission Line
- Pole
- Direction of Flow of Water
- Shingle
- Sand
- Cutting
- Embankment
- Road Under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

Ordnance Survey Plan 3

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given on the right therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

ORDNANCE SURVEY PLAN
Published 1991 to 1993
Source map scale - 1:10,000

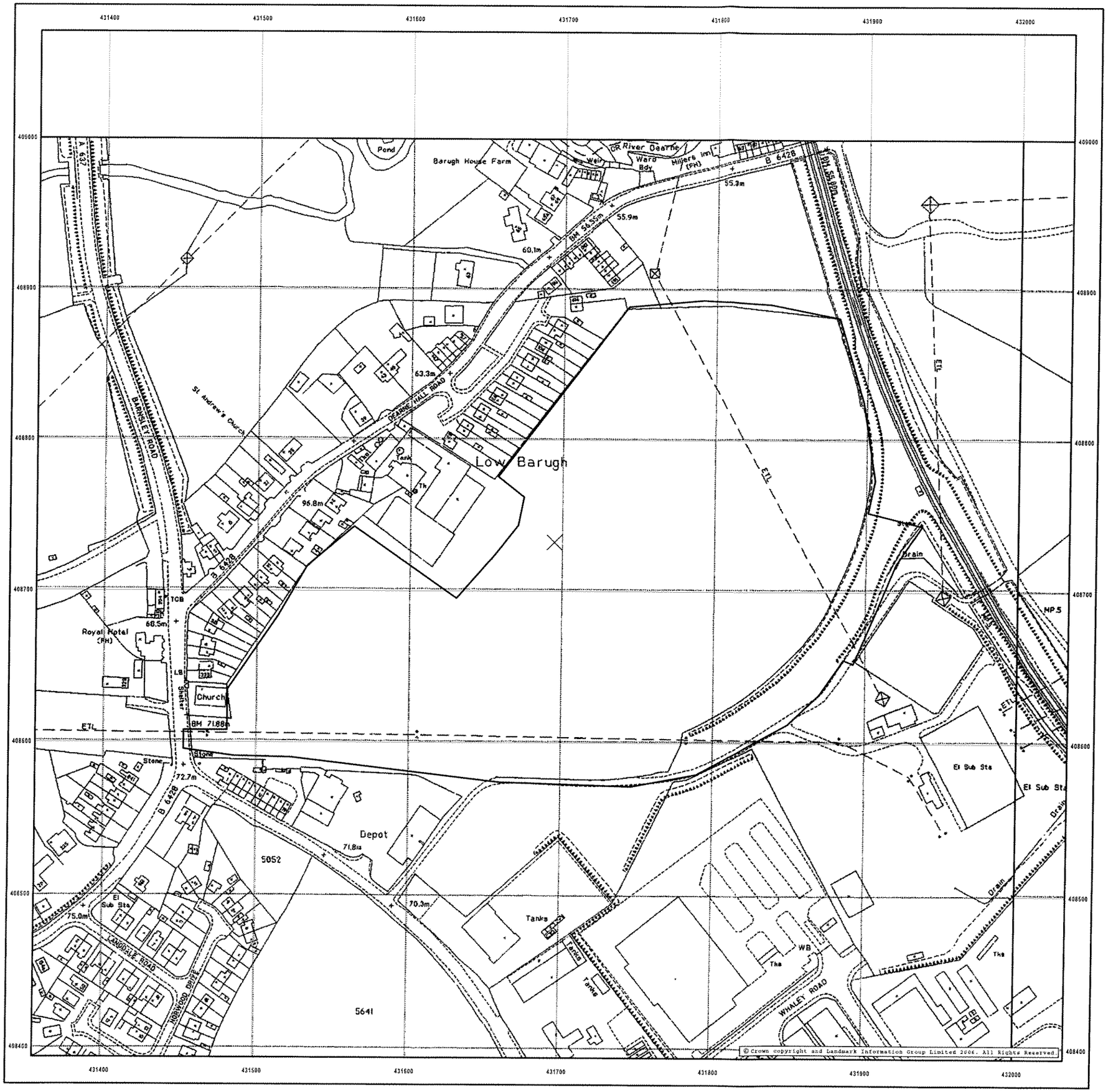


Date(s) of Publication 27 of 28

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A Landmark® product

CLIENT DETAILS Envirocheck Order No. EC19255111_1_1

Customer Ref: MR R Howells,C1277
Sirius Geotechnical & Environmental
Suite 3 Bowcliffe Grange Bowcliffe Hall Estate
Leeds
LS23 6LP

SITE DETAILS Grid Reference 431690 408730

Barugh Green

Barnsley
S75 1JJ

Historical Map Legend

- Slope
- Slope
- BM 231.60m — Bench Mark
- Wells
- Buildings with Building Seed
- Direction of Water flow
- Pylon
- Electricity Transmission Line

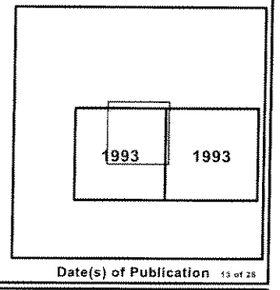
Administrative Boundaries

- Civil parish/community boundary
- District boundary
- County boundary
- Boundary post/stone
- Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Large-Scale National Grid Data 1

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1995. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

ORDNANCE SURVEY PLAN
Published 1993
Source map scale - 1:2,500

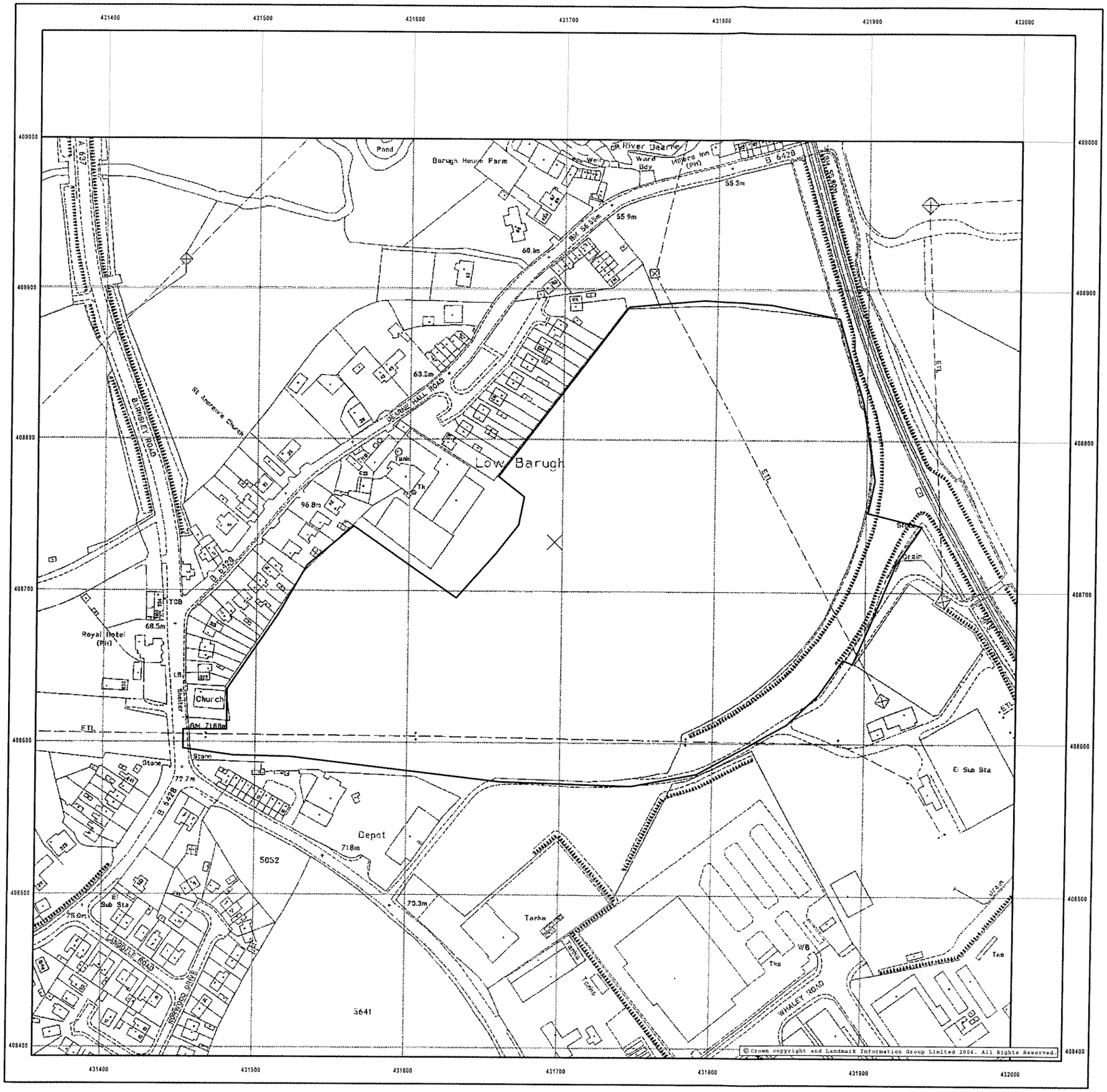


Date(s) of Publication 13 of 28

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CLIENT DETAILS Envirocheck Order No. EC19255111_1_1

(19-Apr-2006 14:47)

Customer Ref: MR R Howells,C1277
Sirius Geotechnical & Environmental
Suite 3 Bowcliffe Grange Bowcliffe Hall Estate
Leeds
LS23 6LP

SITE DETAILS Grid Reference 431690 408730

Barugh Green

Barnsley
S75 1JJ

Historical Map Legend

- Slope
- Slope
- BM 231.60m — Bench Mark
- Wells — Wells
- Buildings with Building Seed
- Direction of Water flow
- Pylon
- ETL — Electricity Transmission Line

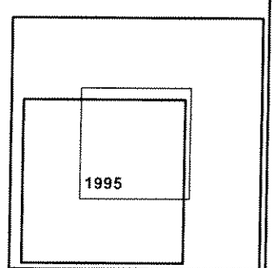
Administrative Boundaries

- Civil parish/community boundary
- District boundary
- County boundary
- Boundary post/stone
- Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Large-Scale National Grid Data 4

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

ORDNANCE SURVEY PLAN
Published 1995
Source map scale - 1:2,500

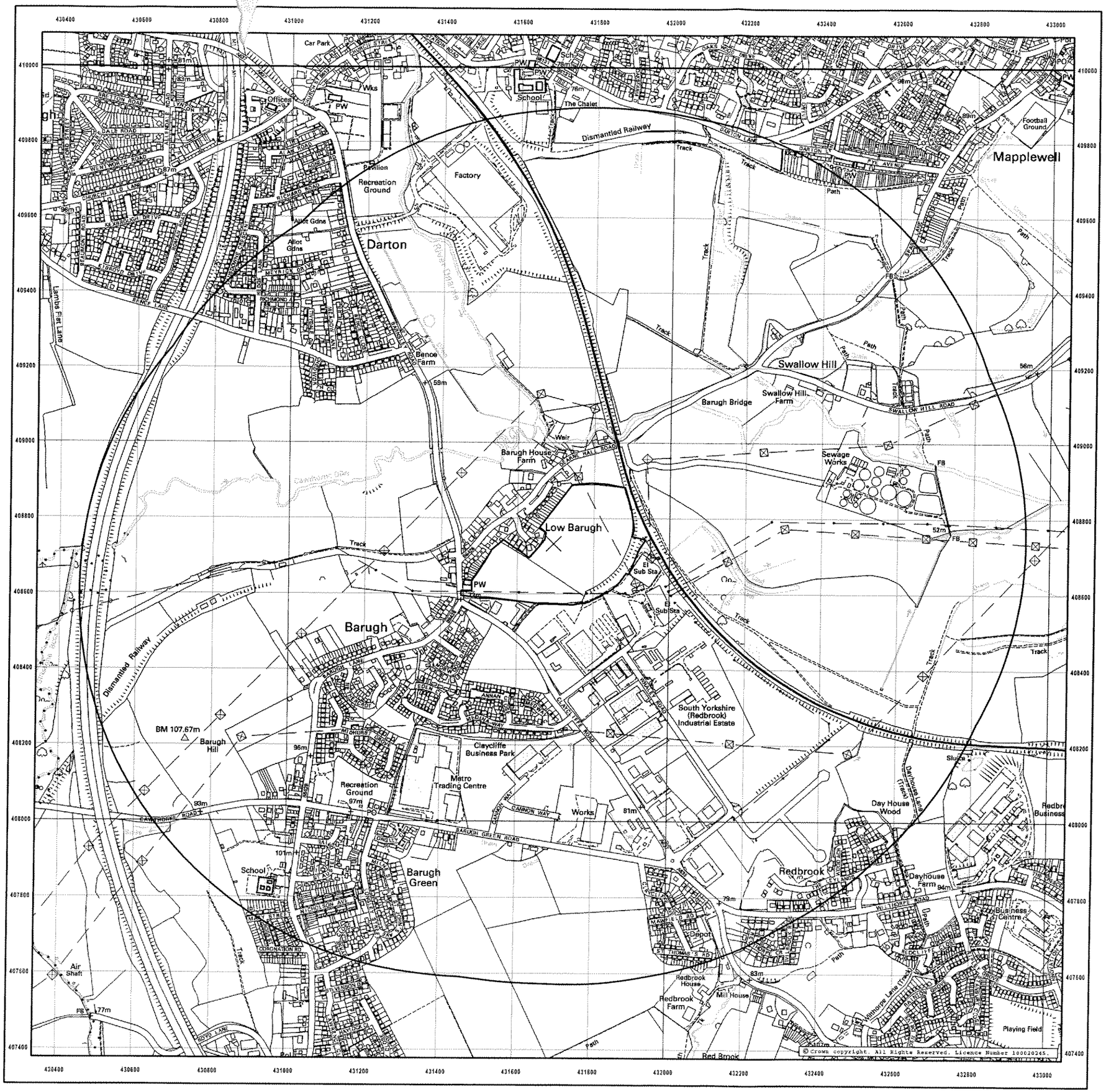


Date(s) of Publication 16 of 28

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Envirocheck®

A Landmark® product

CLIENT DETAILS — Envirocheck Order No. EC19255111_1_1 (15-Apr-2008 14:10)

Customer Ref: MR R Howells,C1277
Sirius Geotechnical & Environmental
Suite 3 Bowcliffe Grange Bowcliffe Hall Estate
Leeds
LS23 6LP

SITE DETAILS — **Grid Reference** 431690 408730

Barugh Green

Barnsley
S75 1JJ

Historical Map Legend

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

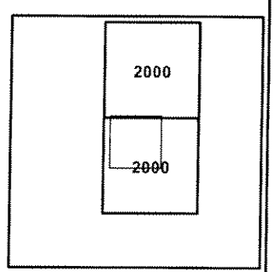
10K Raster Mapping

1

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan® which replaced the old 1:10,000 maps originally published in 1970.

The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

ORDNANCE SURVEY PLAN
Published 2000
Source map scale - 1:10,000



Date(s) of Publication 28 of 28

Ordnance Survey Licensed Partner

LANDMARK® Information Group

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APPENDIX C
CORRESPONDENCE

The Coal Authority,
Mining Reports Office,
200 LICHFIELD LANE,
BERRY HILL,
MANSFIELD,
NOTTINGHAMSHIRE,
NG18 4RG
Telephone: 0845 762 6848
DX 716176 MANSFIELD 5
On-Line Service: www.coalminingreports.co.uk

The COAL AUTHORITY

ANGELA GREGORY,
SIRIUS GEOTECHNICAL & ENVIRONMENTAL LTD,
RUSSEL HOUSE SUITE 2,
MILL ROAD,
LANGLEY MOOR,
DURHAM,
DH7 8HJ

This matter is being dealt with by Darren Moody

Our Ref: **10165902-06**
Your Ref: 1250/HM/C1277
Electronic Ref: EME_00004482440001_005
RRUID: 005.00004482440001
Date: 26 April 2006

Dear Sir,

Coal Mining Report
BARUGH GREEN, BARNSLEY, BARUGH, SOUTH YORKSHIRE

I refer to the enquiry dated 25th April 2006, received 25th April 2006, in connection with the above.

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

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

Past Underground Mining

The property is within the likely zone of influence on the surface from workings in 4 seams of coal at shallow to 170m depth, the last date of working being 1984.

Present Underground Mining

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

Future Underground Mining

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

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

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

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

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

Shafts and Adits

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

The records held by the Coal Authority may be incomplete. Consequently, there may exist in this locality mine entries of which we have no knowledge.

Surface Geology

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

Past Opencast Mining

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

Present Opencast Mining

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

Future Opencast Mining

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

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

Subsidence

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

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

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

Withdrawal of Support

The property lies within a geographical area in respect of which notices of entitlement to withdraw support were published in 1982,1956,1956,1979.

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

Working Facilities Orders

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

Payments to Owners of Former Copyhold Land

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

Additional Remarks

In view of the mining circumstances a prudent developer would seek appropriate technical advice before works are undertaken on site. All proposals should have regard to good engineering practice in mining areas as identified in authoritative publications on mining stability problems. In any event, no activities should be undertaken that intersect, disturb, or interfere with any coal or mines of coal without permission of the Coal Authority.

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

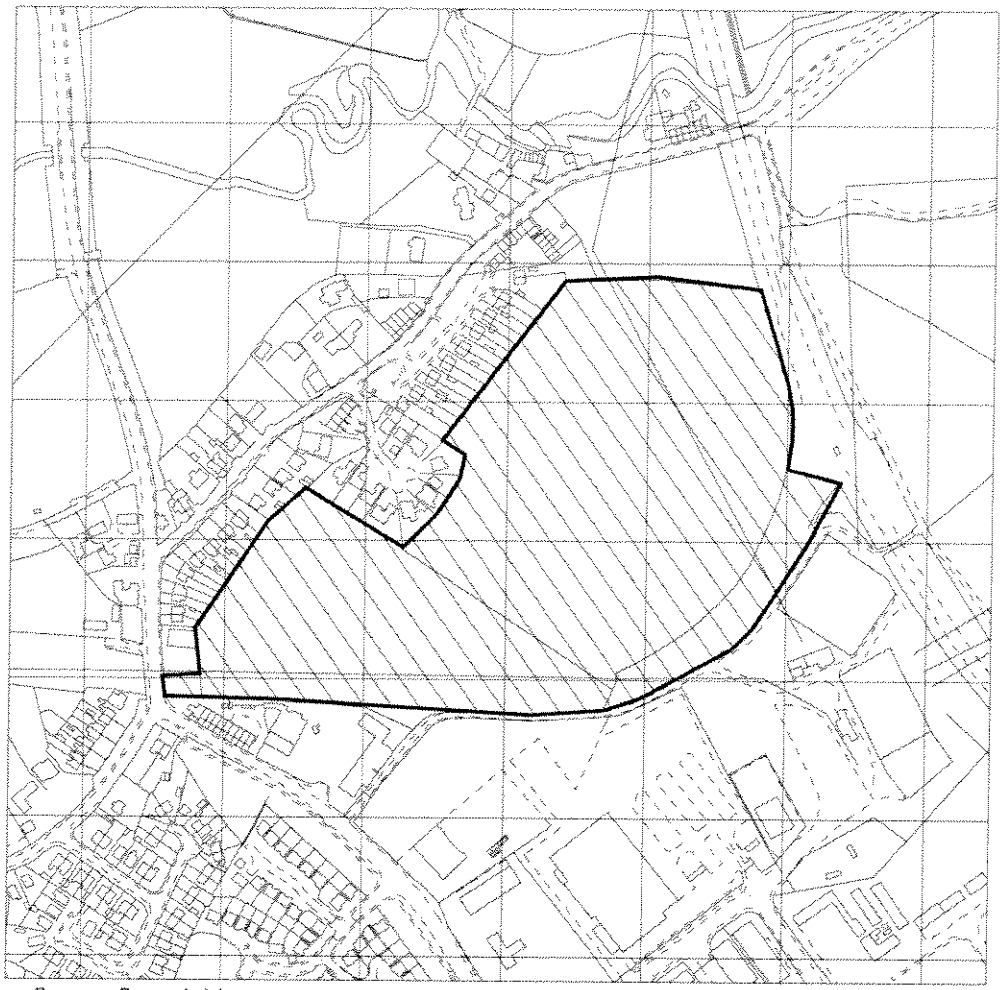
Copyright in coal mining reports and certificates belongs to the Coal Authority. Information used to compile this report is protected by the Coal Authority's database right. All rights are reserved and unauthorised use is prohibited. Copyright and other intellectual property is not transferred to external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

Yours faithfully



Stephen Pennell

Director of Mining Information and Services



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

APPROXIMATE POSITION OF ENQUIRY BOUNDARY SHOWN

BARNSLEY
Metropolitan Borough Council

Regulatory Services
Assistant Director: Ken Eastwood, BSc (Hons), MCIEH
Central Offices, Kendray Street, Barnsley. S70 2TN.

My Ref: JFO/137675 Your Ref: Date: 3 May 2006

Enquiries To: Dr James Fox jamesfox@barnsley.gov.uk Dial Direct: (01226) 772456 Fax: (01226) 775699

RECEIVED
- 8 MAY 2006
LHDHM

Dear Madam

RE: AREA SOUTH OF LOW BARUGH GREEN, BARNSLEY

Further to your fax requesting information in respect of the above site, I can now supply you with the information we hold regarding this site.

1. Closed Landfill Sites

There are four closed landfills within 500m of the site, the details of which are listed in Table 1;

BMBC Reference	**151**	**97**	**98**	**51**
Address	Railway cutting, Claycliffe Road	Claycliffe Ind. Est., Whaley Road	Darton Lane, Dearne Hall Road	Metro Trading Centre, Barugh Green Road
Waste License	DT 1927*	WD20 B488	WD20 B490	WD20 B559
Site Operator	Mr Robinson	C Langfield	C Birkinshaw	R & J Masters
Landfill Material	Inert - gassing	Construction waste	Construction waste	Inert – not gassing
Date Commenced	1971	1985	1985	1987
Date Completed	Unknown	Active	Unknown	1987
Total volume (m^3)	10,000	10,000	2000	5000
Distance from site (m)	40	130	260	430
NGR	431590, 408590	431930, 408510	431830, 409290	431430, 408190
Category	2	4	4	4

Table 1. Landfills within 500m of the site (*Planning Application)

Landfill 151 has been classified by us as a Category 2 site; insufficient information exists regarding the site, which does not allow us to provide an adequate response with respect to the presence of gas or the extent of any gas migration.

Landfills 97, 98 and 51 have been classified as category 4; sites where the landfilled material is of an inert type that is not likely to give rise to gassing.

Denise Broomfield
Sirius Geotechnical & Environmental Ltd
Suite 3, Bowcliffe Grange
Bowcliffe Hall Estate
Bramham
Leeds LS23 6LP

2. Contaminated Land

Under the provisions of the Environmental Protection Act 1990, we have a duty to inspect the borough for contaminated land. As part of this work, records of potential sources of contamination have been compiled through the use of historical Ordnance Survey maps and local knowledge.

With regards to the actual site, we have no information of previous site use that may have caused contamination to occur. The site has not been determined as contaminated land under the provisions of Part IIA of the Environmental Protection Act 1990. There are currently no known reasons why the site may be determined in the future. There are no sites in the immediate surrounding area (i.e. < 500m) that have been determined as contaminated land.

There are four sites within 500m that are listed on The Authority's Part IIA Inspection Program (Table 2).

BMBC Reference	**B_1960_426**	**L_1880_Y274_290**	**B_2000_76**	**L_1930_Y274_836**
Type	Disused colliery spoil tip	General Industry, works, unknown.	Dismantling, repairing or manufacturing road transport.	Coke by-product works
NGR	432110, 408440	431700, 408970	431630, 408480	431970, 408530
Inspection List No.	1711	363	849	1177

Table 2. sites within 500m of Low Barugh that are listed on the BMBC program of inspection

We have prioritised all of the sites in the Borough that have been identified with a previous use, and thus all sites are ranked in priority order. However, I am unable to give any timescales as to when a particular site would be inspected under Part IIA.

Should a planning application be submitted regarding the site in question, in line with Planning Policy Statement 23 'Pollution and Planning Control', we would expect the supporting information to be supplied to address any contamination issues that may be present on the site before a decision would be made on an application.

3. LAPPC/LAPC Authorised Processes

There are no LAPPC Authorised Processes operating on the above site or within 250m.

4. Nuisances

There has been a recorded instance of stagnant water entering gardens from the disused canal that traverses the northern boundary of the site. The canal was infilled by the council prior to 1960. No further records indicating the waste type are available, although anecdotal evidence indicates the waste was domestic, and therefore there maybe a potential source of gas on the northern area of the site.

5. Pollution Incidents

We have no records of any pollution incidents relating to this site. However, I recommend you contact the Environment Agency in respect of this matter, as they receive more reports on this matter.

6. Private Water Abstractions

There are no known private water abstractions within 500m.

I must inform you that the Council make a charge for supplying this information and you will be invoiced accordingly in due course. This charge will be £75 as agreed.

This information is submitted as being the position to-date and other information may be available in records not held by this Authority at the present time. The Borough Council cannot, therefore accept liability or be prejudiced by the views expressed.

Should you wish to discuss this correspondence further, please don't hesitate to contact me.

Yours faithfully

Dr James Fox
Contaminated Land Support Officer

THE OLD SILKSTONE COLLIERIES LTD

BARUGH COLLIERY

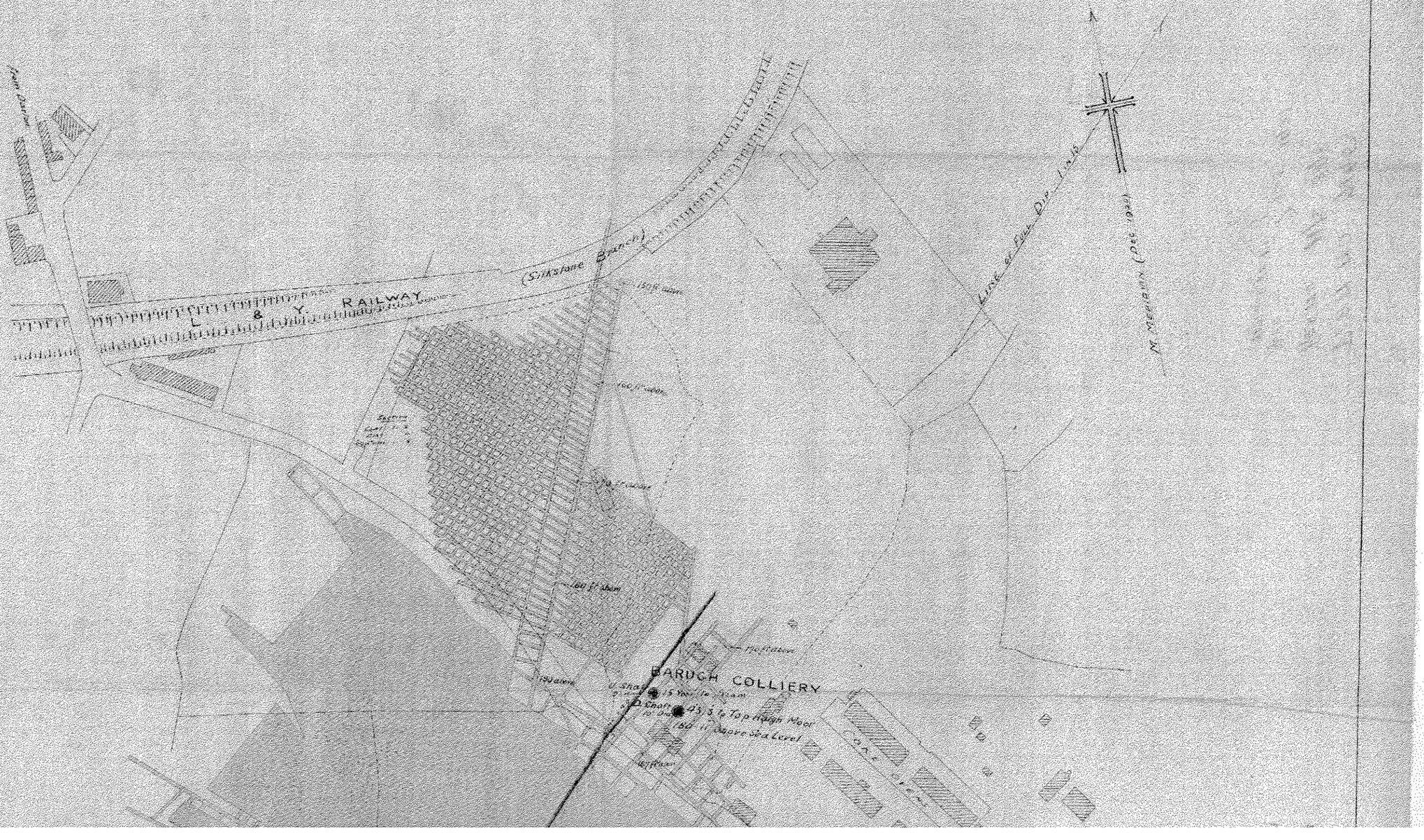
SITUATE IN THE PARISH OF BARUGH

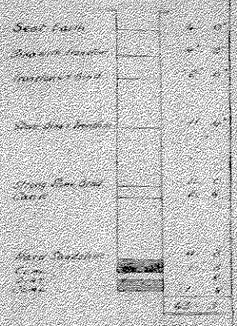
TOP HAIGH MOOR SEAM

SCALE 2 CHAINS TO ONE INCH

This plan is a true Copy of the working plans of the mine as surveyed up to January 31st 1921, and I certify, to the best of my knowledge, accurate and ongoing, that to the best of my knowledge and belief it is an accurate plan of the mine.

A. N. Leonard
Surveyor (Retired).







SECTION or SEAM at Shaft

I certify that this plan is a correct copy of that which has been deposited by my direction and at the time of abandonment, January 31st 1947.

H. A. Stanniland
Manager for the Owners

THE COAL AUTHORITY

Catalogue No.: 7195 Sheet Info:

Date: 17/07/2006

Scale: 1 TO 2500

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This plan is produced from the original abandoned mine plan. The Coal Authority cannot guarantee the accuracy of reproduction or scale.

The Coal Authority, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire NG18 4RG www.coal.gov.uk

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Report prepared for:

Denise Broomfield
Sirius Geotechnical
Suite 3
Bowcliffe Grange
Bowcliffe Hall Estate
Bramham
Leeds
LS23 6LP

RECEIVED
- 5 MAY 2006

Radon Protective Measures Site Report – Standard

Advisory report on the requirement for radon protective measures in new dwellings and extensions including a BR211 (1999) Stage 2 Geological Assessment

Client's Reference:

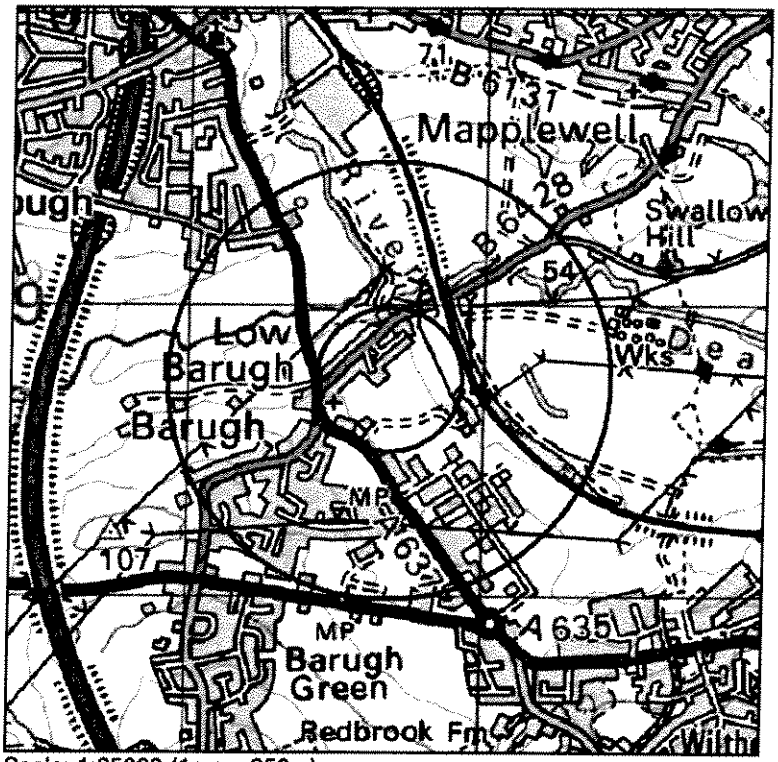
C1277

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Radon (RPM) Report - Standard

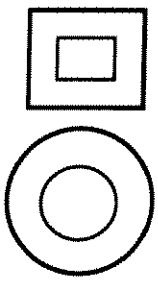
Section 1: Location and extent of report area

Area centred at: 431685,408738
Radius of site area: 250 metres



Scale: 1:25000 (1cm = 250m)

KEY:



INNER RECTANGLE or CIRCLE defines site area (details provided by client).

OUTER LINE shows extent of TOTAL SEARCH AREA comprising the site area and automatically generated buffer zone. The requirement for radon protective measures indicated in Section 2 is based on a geological assessment of the Total Search Area.

Please see Section 4 for details of how the search is carried out

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Mapping sourced from Ordnance Survey®

Section 2: Requirement for radon protective measures

The determination below follows the two stages described in *BR211 Radon: Guidance on protective measures for new dwellings (1999 edition)*, which also provides guidance on what to do if the result indicates that protective measures are required.

Stage 1

Stage 1 (Annex A) of the BR211 (1999) procedure indicates that the minimum level of protection for the report area is **NO** radon protective measures.

Stage 2

The Stage 2 geological assessment carried out for this report indicates **BASIC** radon protective measures are required for the report area. This assessment was derived automatically from the BGS Radon Protective Measures GIS (RPM-GIS) from 1:250,000 scale digital data. Results of the geological search are described in Section 3, and more detail on the assessment procedure is outlined in Section 4.

Result

The BR211 (1999) two-stage procedure indicates that **BASIC** protective measures are required for the site. This is the higher of the two levels of protection indicated by Stage 1 and Stage 2.

The BGS is not able to provide advice on the technical specifications of 'basic' and 'full' radon protective measures. This information is detailed in **BRE Report BR211 :Radon: Protective measures for new dwellings** which may be purchased from **brebookshop.com.** BR211 offers guidance on the technical solutions that are required to satisfy Building Regulations requirements. Summary guidance is available on the web at: http://www.bre.co.uk/radon/protect.html.

If you require further information or guidance, you should contact your local authority building control officer or approved inspector.
Contact 020 7944 5745 or Email: partscdgh.br@odpm.gsi.gov.uk for advice on the interpretation of guidance contained in BRE Report BR211.

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Section 3: Geological units within the search area

Below is a listing, if available, of the possible combinations of Bedrock (Solid) Geology units and overlying Superficial (Drift) Geology units within the total search area derived automatically by the RPM-GIS.

These have been derived (as indicated) from searches of either:

a) Combined 1:250,000 Bedrock (Solid) and 1:625,000 Superficial (Drift) geology maps
b) 1:50,000 Bedrock (Solid), Superficial (Drift) and Artificial geology maps

1:250,000 data

1. MIDDLE COAL MEASURES (FORMATION)(SANDSTONE 3D00); No drift
2. MIDDLE COAL MEASURES (FORMATION)(SANDSTONE 3D00); Alluvium (inc River Terrace Deposits in Scotland)
3. MIDDLE COAL MEASURES (FORMATION)(ARGILLACEOUS ROCKS, UNDIFFERENTIATED); No drift
4. MIDDLE COAL MEASURES (FORMATION)(ARGILLACEOUS ROCKS, UNDIFFERENTIATED); Alluvium (inc River Terrace Deposits in Scotland)

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Section 4: Determining the level of radon protection.

BR 211 (1999) sets out a two-stage procedure to help determine the level of radon protection required in new dwellings and extensions.

In Stage 1 of the procedure, the 5 km grid square radon potential maps (Annex A, BR211,1999) produced by the National Radiological Protection Board (NRPB) are used to make the primary determination of the level of radon protection needed. The NRPB maps are based on the average estimated proportion of homes exceeding the radon Action Level for each 5 km square of the Ordnance Survey National Grid.

In Stage 2, a second series of maps produced by the BGS (Annex B, BR211,1999) is used to decide whether it is necessary to consider upgrading the requirement for protection indicated by Stage 1. This procedure has the objective of avoiding cases of underprotection that might occur had the guidance depended solely on the average radon level in the 5 km grid square indicated by the NRPB maps. The BGS maps in Annex B (BR211, 1999) show those 5 km grid squares that are underlain, completely or in part, by geological units that require either basic or full protection to be installed in new dwellings.

A geological assessment may need to be carried out where the site falls within a shaded grid square on the BGS map in Annex B of BR211 (1999). The geological assessment checks whether a site is on or close to a geological unit which potentially exceeds the action levels for either basic or full radon protection. Consideration must be given to installing basic or full radon protection if the geological assessment shows that this is indicated. If a site falls within one of the shaded squares, it does not necessarily mean that it must have radon protection. This is because some of the grid squares contain bed rocks and unconsolidated (drift) deposits with lower radon potential than the maximum levels shown on the 5 km grid maps in Annex B (BR211, 1999).

In many cases the geological radon potential varies considerably within a grid square. In other cases, only a very small area (sometimes only a few hundred square metres) with a radon potential exceeding the thresholds for basic or full protection occurs within the shaded grid square. The level of protection that might be required is thus site specific, and can be determined by reference to the relevant radon potential map in BR211 (1999) followed by a geological assessment of the site.
(Please note, the NRPB is now the Radiation Protection Division of the Health Protection Agency)

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The geological assessment in this report is produced by the BGS Radon Protective Measures Geographical Information System (RPM GIS), which has been developed to provide Stage 2 Geological Assessments (RPM Site Reports). The assessment is derived from a geologically based interpretation of radon measurements in dwellings which were provided to the BGS by the NRPB without prejudicing confidentiality undertakings to householders and the Department of the Environment, Food and Rural Affairs (DEFRA). The reliability of a geological radon potential assessment is approximately proportional to the number of radon measurements available and the scale of the geological maps.

The RPM GIS currently comprises 1:250,000 scale data with more detailed information for twenty 1:50,000 scale geological map sheets covering the most radon-prone parts of Derbyshire, Northamptonshire, Nottinghamshire, Leicestershire, Lincolnshire, Oxfordshire, Shropshire, Somerset and Yorkshire. The RPM-GIS is being upgraded to 1:50,000 scale as new digital maps become available through the BGS DiGMapGB programme.

The search area (circle or rectangle) for a site is increased by a buffer zone of 50 m in areas with 1:50,000 scale data and 500m in areas with 1:250,000 scale data. This is to allow for potential inaccuracies in the position of the geological boundaries. In many cases a number of combinations of bed rock and drift with differing geological radon potentials will occur within the total search area. Following the precautionary principle, the requirement for protective measures is derived from the highest geological radon potential encountered within the total search area.

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Section 5: Follow-up Detailed Radon Protective Measures site report

For most parts of the UK, a higher resolution assessment of radon protective measures requirements can also be provided by BGS. This will comprise:

i. Assessment by a qualified geologist of the relevant 10,000, 1:10,560 or 1:50,000 scale geological map(s) covering the total search area from BGS archives.
ii. Identification of the level of radon protective measures indicated for all geological units encountered within the site and the immediately surrounding area.

The basic charge for a Detailed Radon Protective Measures Report is **£220 (incl. VAT & Delivery)**. Reports for very large or geologically complex sites may, however, have to be supplemented with additional charge – in such cases, enquiry staff will confirm the charge with the client before proceeding.

The Radon follow-up reports can be ordered from:-
Geological Enquiries, British Geological Survey, Keyworth, Nottingham NG12 5GG; Tel: 0115-936-3192; Fax: 0115-936-3192; e-mail: geohelp@bgs.ac.uk. An on-line ordering facility is available on the BGS Website: www.bgs.ac.uk/georeports.

Section 6: What is radon ?

Radon is a naturally occurring radioactive gas, which is produced by the radioactive decay of radium which, in turn, is derived from the radioactive decay of uranium. Uranium is found in small quantities in all soils and rocks, although the amount varies from place to place. Radon released from rocks and soils is quickly diluted in the atmosphere. Concentrations in the open air are normally very low and do not present a hazard. Radon that enters poorly ventilated enclosed spaces such as some basements, buildings, caves, mines, and tunnels may reach high concentrations in some circumstances. The construction method and degree of ventilation will influence radon levels in individual buildings. A person's exposure to radon will also vary according to how particular buildings and spaces are used.

Inhalation of the radioactive decay products of radon gas increases the chance of developing lung cancer. If individuals are exposed to high concentrations for significant periods of time, there may be cause for concern. In order to limit the risk to individuals, the Government has adopted an Action Level for radon in homes of 200 becquerels per cubic metre (Bq m^{-3}). The Government advises householders that, where the radon level exceeds the Action Level, measures should be taken to reduce the concentration.

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Section 7: Radon in workplaces

The Ionising Radiation Regulations, 1999, require employers to take action when radon is present above a defined level in the workplace. Advice may be obtained from your local Health and Safety Executive Area Office or the Environmental Health Department of your local authority. The BRE publishes a guide (BR293)**: Radon in the workplace.**

BRE publications may be obtained from The BRE Bookshop, I H S Technical Indexes Ltd., Willoughby Road, Bracknell, Berkshire RG12 8DW. Tel: 01344 404407, Fax: 01344 714440, website: www.brebookshop.com

Section 8: Radon in existing dwellings

Useful information is given in the following free publications which can be obtained by writing to: Radon Studies, Radiation Protection Division, Health Protection Agency, Chilton, Didcot, Oxfordshire OX11 0RQ

Radon - A Householder's Guide
Radon - You Can Test for it
Radon - A Guide for Homebuyers and Sellers
Radon - A Guide to Reducing Levels in Your Home
Information in the booklets is also available on the DEFRA website at:
http://www.defra.gov.uk/environment/radioactivity/radon/index.htm

Householders are recommended to follow advice in **Radon - a householder's guide.** The guide outlines simple solutions for dealing with the radon problem depending on whether or not the home has been tested for radon. In radon affected homes, the problem of radon can usually be tackled with simple, effective and relatively inexpensive measures. These measures are comparable in cost to work such as damp-proofing and timber treatment. You can get practical advice about construction work to reduce radon levels from the Building Control Officer at your local council.

Advice about radon, its health risks and details of how to order the radon test may be obtained from the **Radon Freephone** on 0800 614529 or Tel: 01235 822622, website: www.hpa.org.uk or by writing to Radon Studies at the Health Protection Agency, address above.

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Section 9: Terms & Conditions

General

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- Although samples and records are maintained with all reasonable care, there may be some deterioration in the long term.
- The most appropriate techniques for copying original records are used, but there may be some loss of detail and dimensional distortion when such records are copied.
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APPENDIX D
EXPLORATORY HOLE RECORDS

TRIAL PIT RECORD

TP No. **TP1**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 12/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).				
D	0.50m			MADE GROUND: Yellow brown fine to coarse subangular to angular GRAVEL of predominantly sandstone with occasional mudstone.	0.40			
D	1.30m							
D	2.00m							
D	3.00m							
D	3.50m			Firm grey sandy CLAY.	3.20			
				End of Trial Pit at 3.60 m	3.60			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated at the maximum reach of the JCB.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP1

TRIAL PIT RECORD

TP No. **TP2**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 12/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.50m	60		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	0.70			
D	1.00m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Compietely weathered mudstone).				
D	2.00m			Becoming thinly laminated and difficult to excavate from 2.00m. (Weathered mudstone)				
				End of Trial Pit at 2.40 m	2.40			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Becoming difficult to excavate below 2.00m, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP2

TRIAL PIT RECORD

TP No. **TP3**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 12/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.40m			Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	0.50			
D	1.00m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	1.50			
D	2.00m			Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular tabular gravel of mudstone.	2.30			
				End of Trial Pit at 2.30 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone; excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP3

TRIAL PIT RECORD

TP No. **TP4**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 12/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.50m			MADE GROUND: Orange grey fine to coarse subangular GRAVEL of sandstone and mudstone, with rare coal and with occasional cobbles of sandstone.				
D	1.30m							
D	2.30m							
				Moderately strong thinly bedded yellow brown SANDSTONE. Recovered as coarse tabular gravel and cobbles of sandstone.	2.80			
				End of Trial Pit at 3.30 m	3.30			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Becoming difficult to excavate below 2.80m, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP4

TRIAL PIT RECORD

TP No. **TP5**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 12/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.50m			Orange grey fine to coarse subangular GRAVEL of sandstone and mudstone, with rare coal and with occasional cobbles of sandstone.	0.70			
D	1.00m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	1.90			
D	2.00m			Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular tabular gravel of mudstone.	2.60			
				End of Trial Pit at 2.60 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone; excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP5

TRIAL PIT RECORD

TP No. **TP6**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 12/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (PPM)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.50m	64		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	0.60			
D	1.00m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	2.10			
D	2.30m			Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular tabular gravel of mudstone.	2.80			
				End of Trial Pit at 2.80 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone: excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP6

TRIAL PIT RECORD

TP No. **TP7**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 12/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).				
					0.40			
D	0.80m			MADE GROUND: Orange grey fine to coarse subangular GRAVEL of sandstone and mudstone, with rare coal and with occasional cobbles of sandstone.				
D	1.90m							
D	2.90m							
				End of Trial Pit at 3.40 m	3.40			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated at the maximum reach of the excavator.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP7

TRIAL PIT RECORD

TP No. **TP8**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 12/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	1.00m			MADE GROUND: Orange grey fine to coarse subangular GRAVEL of sandstone and mudstone, with rare coal and with occasional cobbles of sandstone.				
D	2.00m							
D	3.00m	54		Firm friable grey sandy CLAY.	2.60			
				End of Trial Pit at 3.90 m	3.90			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated at the maximum reach of the excavator.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP8

TRIAL PIT RECORD

TP No. **TP9**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 12/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.30m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).				
		81		Stiff grey brown mottled sandy slightly gravelly CLAY. Gravel is fine to medium subangular of mudstone and sandstone.	0.40			
D	1.00m							
				Stiff grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	1.10			
D	2.00m							
D	3.00m							
				End of Trial Pit at 3.10 m	3.10			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated at maximum reach of excavator; difficult to penetrate below 3.00m.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP9

TRIAL PIT RECORD

TP No. **TP10**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.10			
D	0.60m	65		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	0.90			
D	1.00m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	2.00			
D	1.90m			Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular gravel of mudstone.	2.40			
D	2.30m			End of Trial Pit at 2.40 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone; excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP10

TRIAL PIT RECORD

TP No. **TP11**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.50m			Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	0.60			
D	1.10m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).				
D	1.90m							
D	2.40m			Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular tabular gravel of mudstone.	2.10			
				End of Trial Pit at 2.60 m	2.60			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone; excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP11

TRIAL PIT RECORD

TP No. **TP12**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.70m	72		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	1.10			
		68		Firm friable grey sandy CLAY.				
D	1.50m							
		73						
D	2.50m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	2.40			
				End of Trial Pit at 3.10 m	3.10			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -
Easting: -
Northing: -

Fig. No. TP12

TRIAL PIT RECORD

TP No. **TP13**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m	-		MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.80m	66		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	1.40			
D	1.60m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	2.70			
D	2.50m			Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular tabular gravel of mudstone.	3.40			
D	3.10m			End of Trial Pit at 3.40 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone. Excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP13

TRIAL PIT RECORD

TP No. **TP14**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
				MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.30m							
		52		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.				
D	0.70m							
		64						
				Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	1.30			
D	1.50m							
D	2.40m			Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular tabular gravel of mudstone.	2.40			
D	3.00m							
				End of Trial Pit at 3.10 m	3.10			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone; excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP14

TRIAL PIT RECORD

TP No. **TP15**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.70m	58		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	1.20			
D	1.60m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	2.50			
D	2.50m			Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular tabular gravel of mudstone.	3.10			
D	2.90m			End of Trial Pit at 3.10 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone; excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP15

TRIAL PIT RECORD

TP No. **TP16**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
				Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.				
D	0.80m							
				Firm friable grey sandy CLAY.	1.00			
		59						
D	1.60m							
				Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	2.00			
D	2.60m							
				End of Trial Pit at 2.90 m	2.90			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP16

TRIAL PIT RECORD

TP No. **TP17**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.80m			Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.				
		71		Firm friable grey sandy CLAY.	1.10			
D	1.70m							
D	2.00m			Moderately strong thinly bedded yellow brown SANDSTONE. Recovered as coarse tabular gravel and cobbles of sandstone.	2.00 2.10			
				End of Trial Pit at 2.10 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated on impenetrable sandstone.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP17

TRIAL PIT RECORD

TP No. **TP18**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.70m	32		Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	1.20			
D	1.60m	72		Firm friable grey sandy CLAY.	2.30			
D	2.20m			Moderately strong thinly bedded yellow brown SANDSTONE. Recovered as coarse tabular gravel and cobbles of sandstone.	2.40			
D	2.40m			End of Trial Pit at 2.40 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated on impenetrable sandstone.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP18

TRIAL PIT RECORD

TP No. **TP19**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.70m			Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	0.90			
D	1.30m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	1.80			
D	2.10m			End of Trial Pit at 1.80 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP19

TRIAL PIT RECORD

TP No. **TP20**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.80m	-		Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	1.10			
D	1.40m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	1.90			
				End of Trial Pit at 1.90 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP20

TRIAL PIT RECORD

TP No. **TP21**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.60m			Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	0.60			
		62		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.				
D	1.50m	74						
				Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	1.70			
D	2.10m							
				Moderately strong thinly bedded yellow brown SANDSTONE. Recovered as coarse tabular gravel and cobbles of sandstone.	2.30 2.40			
				End of Trial Pit at 2.40 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated on impenetrable sandstone.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP21

TRIAL PIT RECORD

TP No. **TP22**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
				MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.20m			Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.				
D	0.50m				0.70			
		66		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.				
D	1.40m							
		61			1.80			
D	2.00m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).				
D	2.30m				2.50			
				Moderately strong thinly bedded yellow brown SANDSTONE. Recovered as coarse tabular gravel and cobbles of sandstone.	2.60			
				End of Trial Pit at 2.60 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated on impenetrable sandstone.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP22

TRIAL PIT RECORD

TP No. **TP23**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.60m	-		Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	1.10			
D	1.40m	57		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	2.10			
D	2.30m	64		Moderately strong thinly bedded yellow brown SANDSTONE. Recovered as coarse tabular gravel and cobbles of sandstone.	2.40			
D	2.70m			Firm grey brown friable slightly gravelly slightly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	3.00			
				End of Trial Pit at 3.00 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP23

TRIAL PIT RECORD

TP No. **TP24**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS Type	Depth From - To(m)	Vane Results kN/m²	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.50m			Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	0.70			
D	1.10m			Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	1.50			
D	2.30m			Moderately strong thinly bedded yellow brown SANDSTONE. Recovered as coarse tabular gravel and cobbles of sandstone.	2.50			
				End of Trial Pit at 2.50 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in sandstone, excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP24

TRIAL PIT RECORD

TP No. **TP25**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).				
					0.30			
				Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.				
D	0.70m	68						
					1.30			
D	1.40m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).				
D	2.00m							
				End of Trial Pit at 2.10 m	2.10			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD)
-
Easting:
-
Northing:
-

Fig. No.
TP25

TRIAL PIT RECORD

TP No. **TP26**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).				
D	0.50m				0.70			
				Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	1.00			
D	1.30m	69		Firm friable grey sandy CLAY.				
D	1.60m				1.80			
				Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).				
D	2.30m				2.60			
				End of Trial Pit at 2.60 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP26

TRIAL PIT RECORD

TP No. **TP27**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.60m			Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.				
D	1.00m	48		Firm friable grey sandy CLAY.	0.90			
D	1.70m			Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular tabular gravel of mudstone.	1.80			
D	2.30m			End of Trial Pit at 2.40 m	2.40			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone, excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP27

TRIAL PIT RECORD

TP No. **TP28**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 13/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS Type	Depth From - To(m)	Vane Results kN/m²	Groundwater	STRATA RECORD Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.50m			Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	0.80			
D	0.90m	67		Firm friable grey sandy CLAY.				
D	1.50m							
D	2.10m	59			2.30			
D	3.00m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	3.10			
				End of Trial Pit at 3.10 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP28

TRIAL PIT RECORD

TP No. **TP29**

Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 14/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.40m			Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	0.60			
		73		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.				
D	1.10m							
		64						
				Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	1.40			
D	2.00m							
				End of Trial Pit at 2.20 m	2.20			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP29

TRIAL PIT RECORD

TP No. **TP30**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 14/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.10m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.20			
D	0.50m			Firm friable brown grey sandy slightly gravelly CLAY. Gravel is fine to medium, subangular of sandstone with rare coal.	0.90			
D	1.30m	53		Firm friable grey sandy CLAY.				
D	2.30m	62		Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	2.70			
D	3.00m			End of Trial Pit at 3.40 m	3.40			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP30

TRIAL PIT RECORD

TP No. **TP31**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 14/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
D	0.60m			Soft occasionally firm grey brown very sandy occasionally gravelly CLAY. Gravel is fine to medium of sandstone and rare coal.	0.80			
D	1.10m	55		Firm friable grey sandy CLAY.				
D	1.90m			Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	2.00			
D	2.60m			End of Trial Pit at 2.70 m	2.70			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP31

TRIAL PIT RECORD

TP No. **TP32**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 14/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).	0.30			
		47		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.				
D	0.60m							
					1.10			
				Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).				
D	1.40m							
D	2.20m							
					2.70			
				End of Trial Pit at 2.70 m				

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Excavator unable to penetrate easily, trial pit terminated.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP32

TRIAL PIT RECORD

TP No. **TP33**
Sheet 1 of 1

Site : Barugh Green, Barnsley

Contract No: C1277

Client : Hallam Land Management Ltd.

Dates: 14/06/2006

Method : JCB 3CX with a 0.60m wide toothed bucket.

Scale 1:25

Logged By: JC

SAMPLE DETAILS			Groundwater	STRATA RECORD				
Type	Depth From - To(m)	Vane Results kN/m²		Description	Depth (m)	Level (mAOD) PID (ppm)	Legend	Well
D	0.20m			MADE GROUND: Soft greyish brown sandy slightly gravelly CLAY with rootlets. Gravel is fine to medium subangular to subrounded of sandstone with some brick. (Topsoil).				
D	0.50m	61		Firm grey mottled brown sandy CLAY with occasional cobbles and gravel of sandstone.	0.40			
D	1.00m							
				Firm grey brown friable very gravelly sandy CLAY. Gravel is fine to coarse subangular of mudstone. (Completely weathered mudstone).	1.30			
D	2.00m							
				Weak grey brown MUDSTONE. Recovered as fine to coarse subangular to angular tabular gravel of mudstone.	2.50			
				End of Trial Pit at 3.10 m	3.10			

Remarks and Water Observations

1. No groundwater encountered.
2. Trial pit stable.
3. Trial pit terminated in mudstone; excavator unable to penetrate easily.

GL (m AOD) -

Easting: -

Northing: -

Fig. No. TP33