# Appendix E: British Geological Survey Borehole Logs

Incoming Doc. 1003

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL
*GeoRecords (Part of the National Geoscience Information Service)*

*Angela Morgan*
*Faber Maunsell*
*Lynnfield House*
*Church Street*
*Altrincham*
*Cheshire*
*WA14 4DZ*

*BGS Ref : BH_101192*

**British Geological Survey**
**Nicker Hill**
**Keyworth**
**Nottingham**
**NG12 5GG**

***Direct Line: 0115 9363143***
***Direct Fax: 0115 9363276***
***E-mail: enquiries@bgs.ac.uk***
***Date: 21 Jun 2007***

*Dear Sirs*

***RE: BOREHOLE RECORDS***

*With reference to your recent order, please find enclosed copies of the following borehole logs:*

| |
|---|
| *SJ89NW142, SJ89NW143, SJ89NW873, SJ89NW2037, SJ89NW2038, SJ89NW3757, SJ89NW3759, SJ89NW3760, SJ89NW3763, SJ89NW3764* |

| |
|---|
| ***Notes:***<br>*SJ89NW142-143 one log* |

*A receipt is enclosed if you have already made payment for your order, alternatively, an invoice will be sent from our Accounts Department in due course.*

*If you have any further queries, please do not hesitate to contact us.*

*Yours faithfully,*

GeoRecords

INVESTOR IN PEOPLE
POSITIVE ABOUT DISABLED PEOPLE

| |
|---|
| Job No. |
| Fabermaunsell Altrincham |
| Reviewed by: AM AMo |
| 22 JUN 2007 |
| Actioned by |
| Date: |
| Copy to: |
| Filing Loc: 4-0 Incoming Docs / 003 |

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

National Geological Records Centre

# IMPORTANT INFORMATION ON COPYRIGHT AND CONDITIONS OF USE

## Ref: BH_101192 The data you have received is supplied under the following conditions

**Copyright**
The copyright of materials derived from the British Geological Survey's work is vested in the Natural Environment Research Council (NERC) and/or the commissioning authority under whose auspices the relevant work was carried out. No part of these materials supplied under cover of this invoice may be reproduced or transmitted in any form or by any means, or stored in a retrieval system of any nature, without the prior written permission of NERC, through the Director, British Geological Survey

**Permission to reproduce BGS materials**
Permission to reproduce such materials must be sought in writing from the Intellectual Property Rights Manager, BGS, Keyworth.
A basic BGS copyright licence may be taken out which authorises a licensee to include extracts of BGS maps and other documents passed to third parties for a 12 month period.
Third parties receiving copies of BGS materials under a licence may not recopy them *unless prior permission has been obtained from the Intellectual Property Rights Manager.*
A basic BGS licence does not cover any form of digital copying or manipulation; digital data are subject to specific licensing and royalty arrangements, for which specific permission is required.

**Ownership and conditions of use**
In order to comply with ownership rights and any express conditions of deposit, information supplied by BGS is provided on the strict understanding that it is for the sole use of the customer, and will not be passed in whole or in part to a third party. This does not preclude its use for the purpose of satisfying a consultancy contract for which the information was sought.

**Exclusion of warranty**
Use by the customer of information provided by the British Geological Survey is at the customer's own risk. In view of the disparate sources of information at the Survey's disposal, including such material donated to the Survey, that the Survey accepts in good faith as being accurate, the Natural Environment Research Council gives no warranty, expressed or implied, as to the quality or accuracy of information supplied by the Survey, or as to the information's suitability for any use. The Natural Environment Research Council accepts no liability whatsoever in respect of loss, damage, injury or other occurrence however caused.
Customers should be aware of the following factors that may affect the quality/accuracy of information supplied:
1 Geological observations are made according to the prevailing understanding of the subject at the time. The quality of such observations may be affected by subsequent advances in knowledge, improved methods of interpretation, and better access to sampling locations.
2 Raw data may have been transcribed from analogue to digital format, or may have been acquired by means of automated measuring techniques. Although such processes are subjected to quality control to ensure reliability where possible, some raw data may have been processed without human intervention and may in consequence contain undetected errors.
3 Detail clearly defined and accurately depicted on large-scale maps may be lost when small-scale maps are derived from the large-scale maps.
4 Although samples and records are maintained with all reasonable care, there may be some deterioration in the long term.
5 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.
6 Data supplied by external organisations to BGS, and which BGS makes available to others, is provided 'as is' without warranty of any kind, either express or implied, including, but not limited to, the implied warranties of fitness for a purpose.
7 Data, information and related records that have been donated to BGS have been produced for a specific purpose, and that may affect the type and completeness of the data recorded and any interpretation. The nature and purpose of data collection, and the age of the resultant material may render it unsuitable for certain applications/uses. Customers/recipients of such material are advised that it is their responsibility to verify the suitability of the material for their intended usage.
8 The data, information and related records supplied by BGS should not be taken as a substitute for specialist interpretations, professional advice and/or detailed site investigations. Professional advice should be sought before making technical interpretations on the basis of the materials provided.

**Charges and waivers**
Current charging rates are published in a BGS information leaflet, 'Charges for information and advisory services', copies of which are available on request. Certain charges may, on occasion, be waived in support of bona fide academic research (against an affidavit signed by the appropriate Head of Dept.) or where a formal quid pro quo agreement is effected between BGS and an external body for an exchange of information or a service in kind.

**Further information or queries**
Any queries about the records held in the National Geological Records Centre should be addressed to:

The Records Officer
National Geological Records Centre
British Geological Survey
Keyworth
Nottingham NG12 5GG
Telephone: +44(0)115 9363106 Direct/Pager
Fax: +44(0)115 9363276
e-mail: ngrc@bgs.ac.uk

Queries about the supply of records should be addressed to the:

The BGS Enquiry Service
GeoRecords Section
British Geological Survey
Keyworth
Nottingham NG12 5GG
Telephone: +44(0)115 9363143 Direct
Fax: +44(0)115 9363276
e-mail: enquiries@bgs.ac.uk

383312
396297

## BOREHOLE LOGS

Site: Loretto College, Hulme.

25mm diameter percussion rig

Worms Eye Site Investigation
52 Bank Parade
Burnley

BOREHOLE No. 16

Date: 16th December 1985
Located:playing fields

| Depth (m) | Penetration Rate (secs) | Description |
|---|---|---|
| 0.1 | | |
| | 92 (hard & soft bands) | |
| 1.1 | | FILL - brick and organic clay |
| | 22 | |
| 2.1 | | FILL - loose sand with roots and bric |
| | 142 | |
| 2.9 (refusal) | | FILL? - soft organic clay over stone. |
| | Generally dry. | |

British Geological Survey

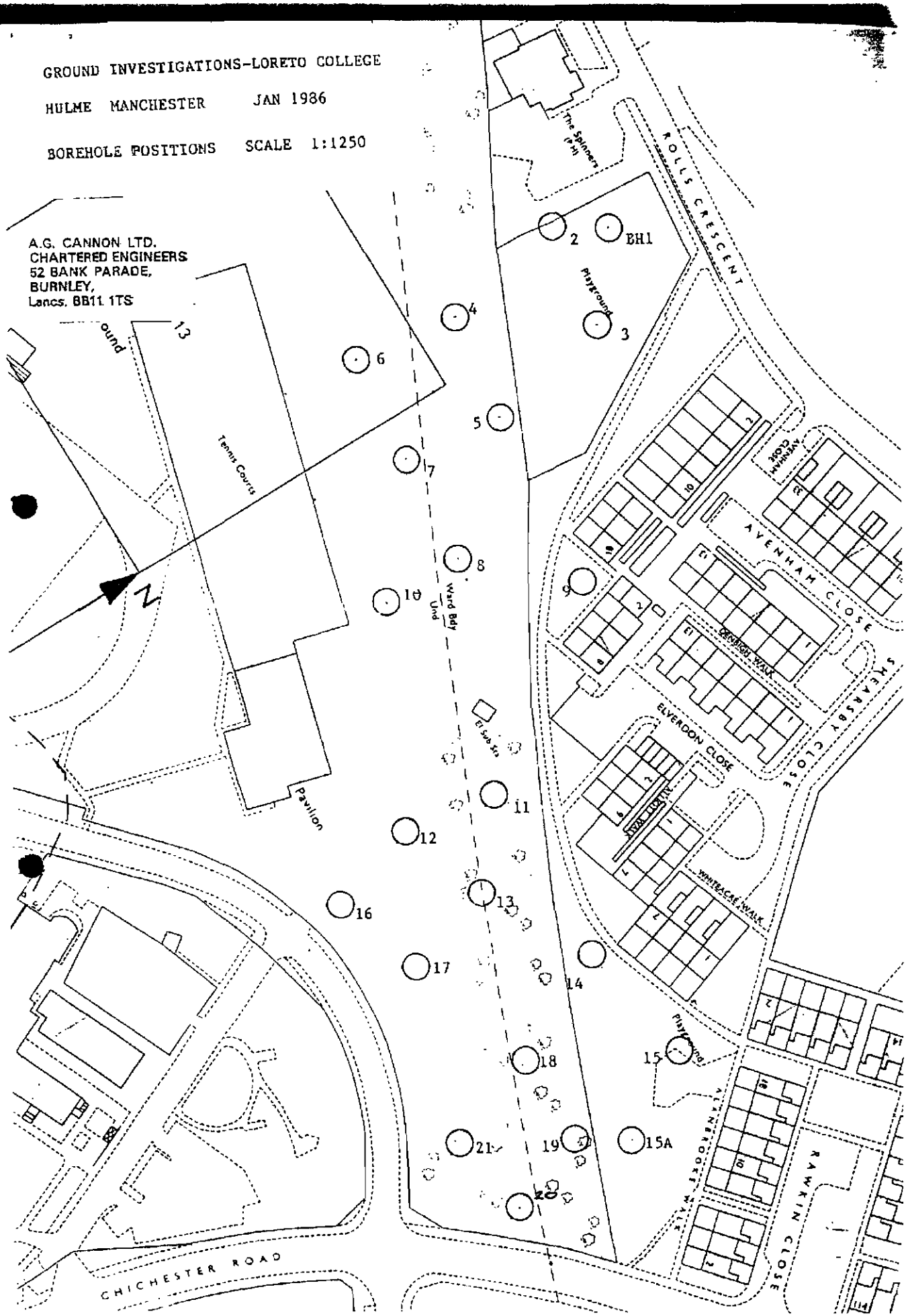
© All rights are reserved by the copyright proprietors.

GROUND INVESTIGATIONS-LORETO COLLEGE

HULME MANCHESTER JAN 1986

BOREHOLE POSITIONS SCALE 1:1250

A.G. CANNON LTD.
CHARTERED ENGINEERS
52 BANK PARADE,
BURNLEY,
Lancs. BB11 1TS

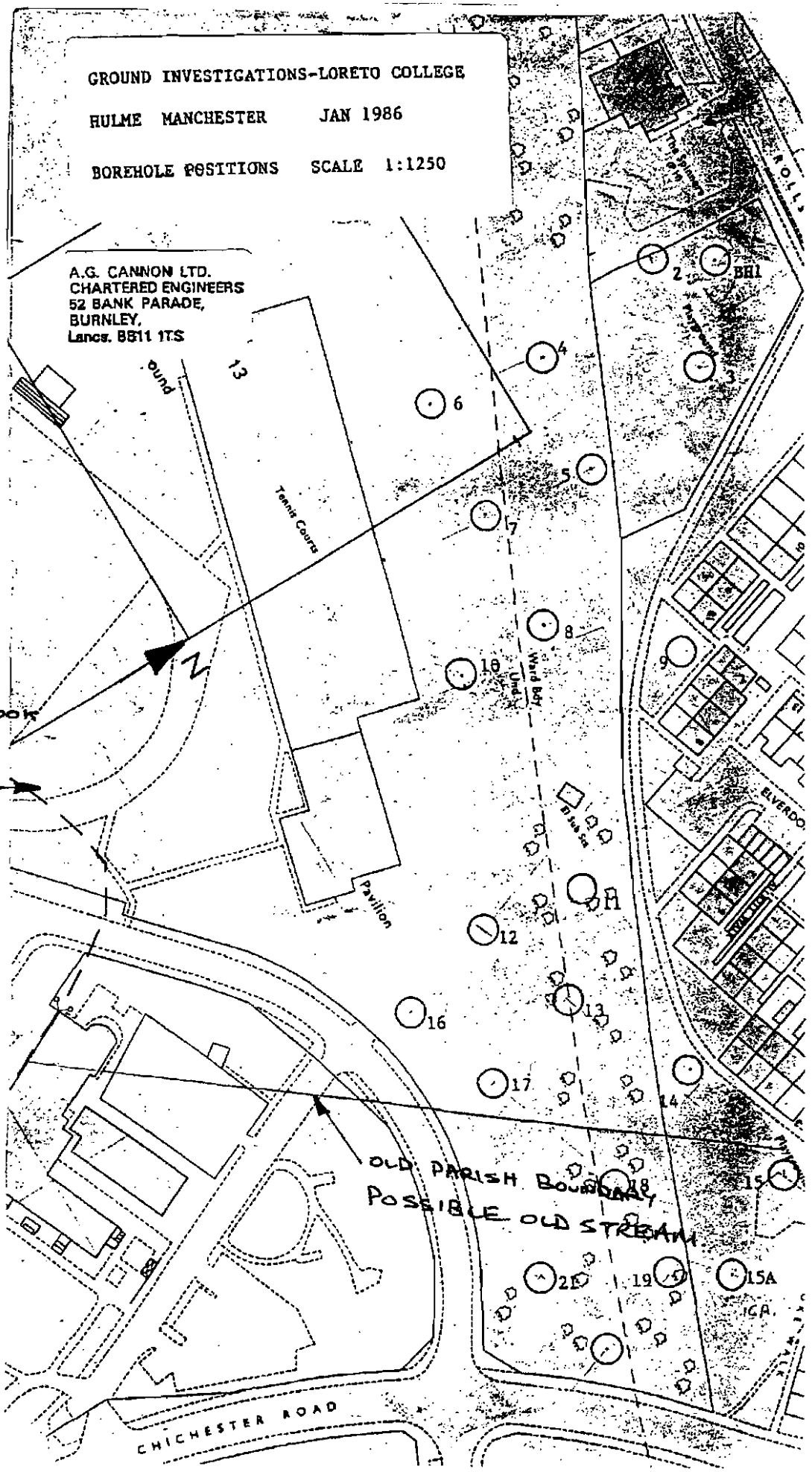



British Geological Survey



© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3759 .]

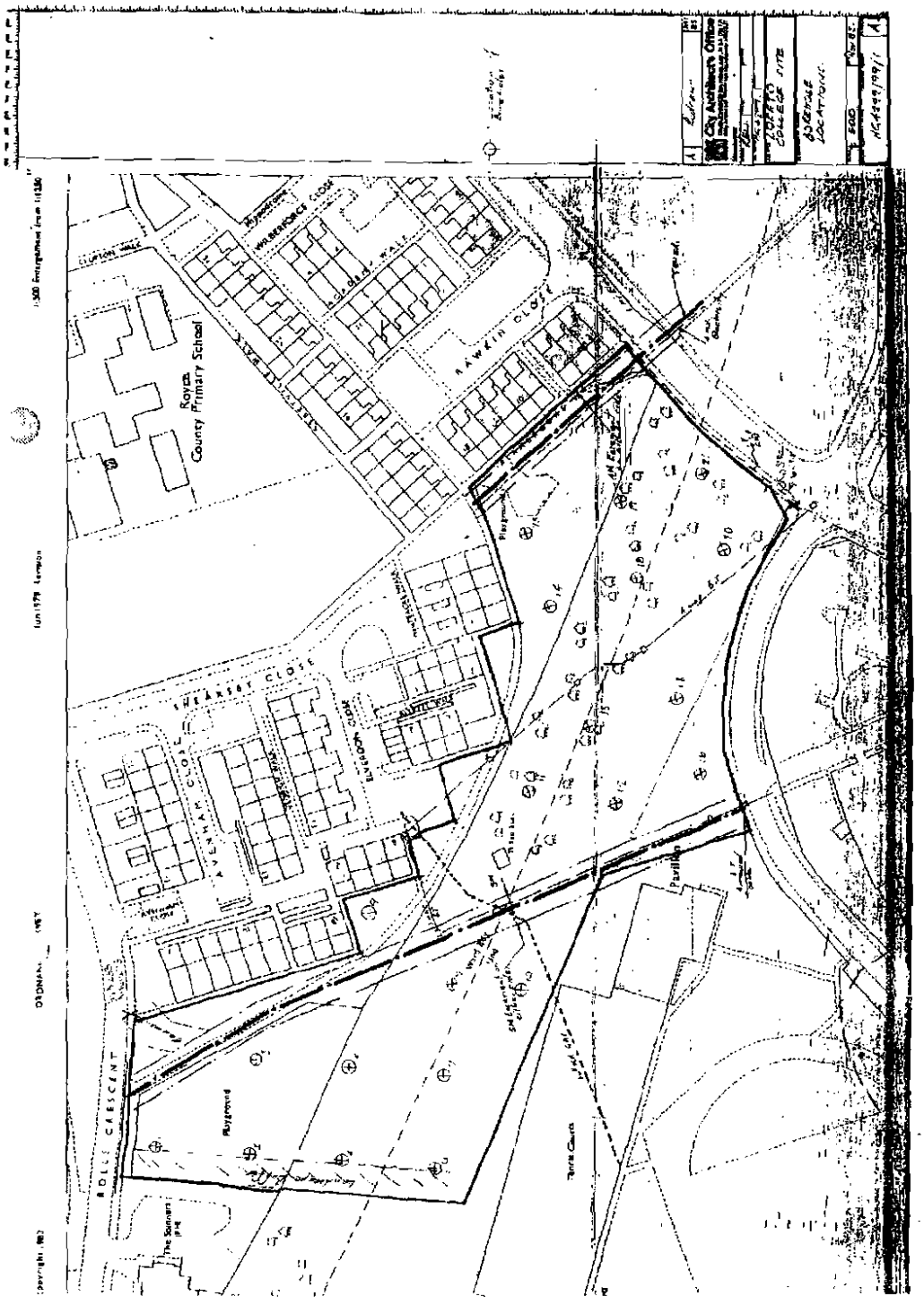





British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3759 .]




British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3759

[redacted]
396305

## BOREHOLE LOGS

Site: Loretto College, Hulme.

25mm diameter percussion rig

Worms Eye Site Investigation
52 Bank Parade
Burnley

BOREHOLE No. 17

Date: 19th December 1985
Located: playing fields

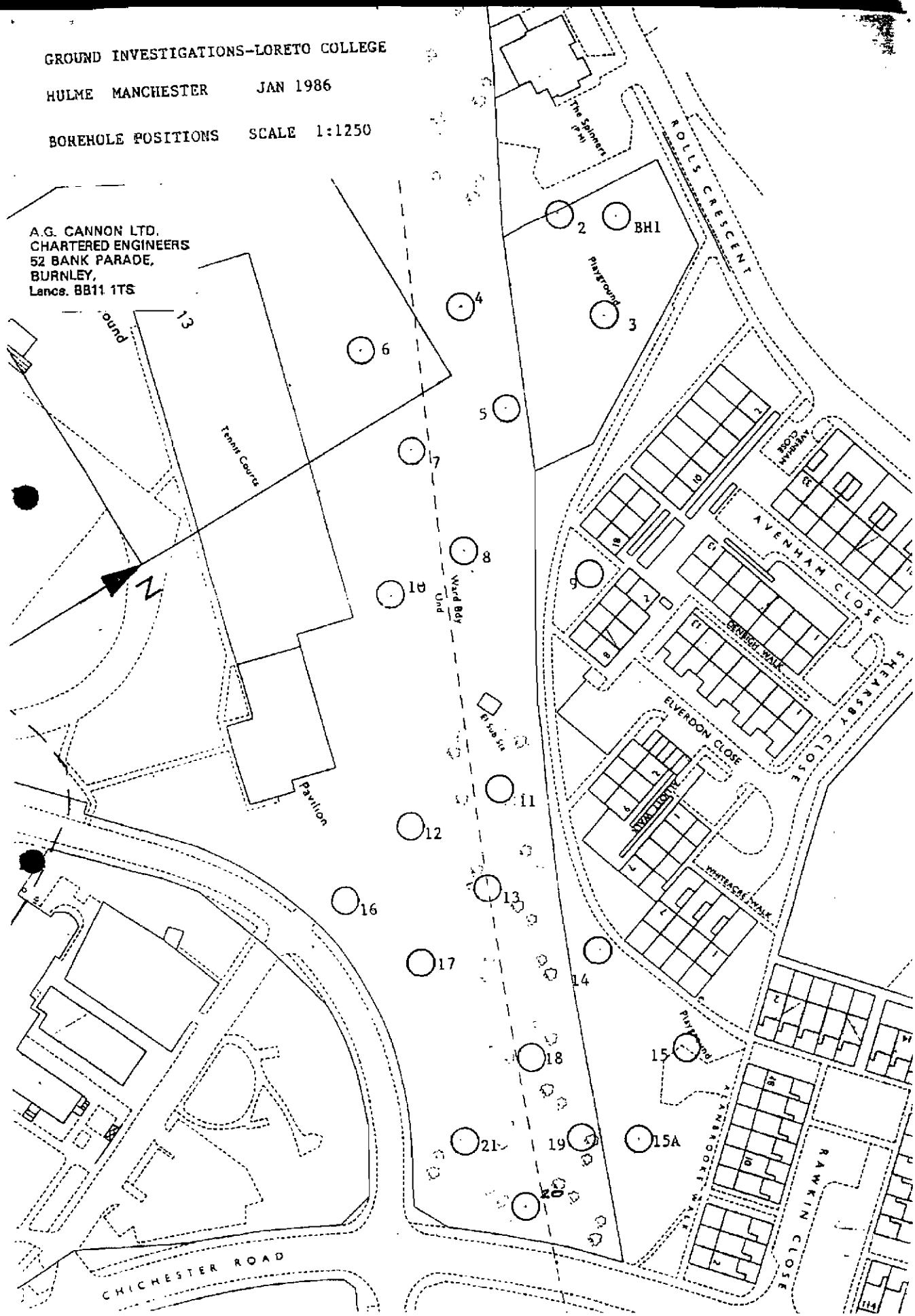
| Depth (m) | Penetration Rate (secs) | Description |
|---|---|---|
| 0.1 | | |
| | 26 (softer from 0.4) | |
| 1.1 | | soft grey brown silt with organic trace |
| | 30 | |
| 2.1 | | yellow SAND |
| | 45 | |
| 3.1 | | GRAVEL over SAND |
| | generally dry. | |

British Geological Survey
© All rights are reserved by the copyright proprietors.

GROUND INVESTIGATIONS-LORETO COLLEGE

HULME MANCHESTER JAN 1986

BOREHOLE POSITIONS SCALE 1:1250

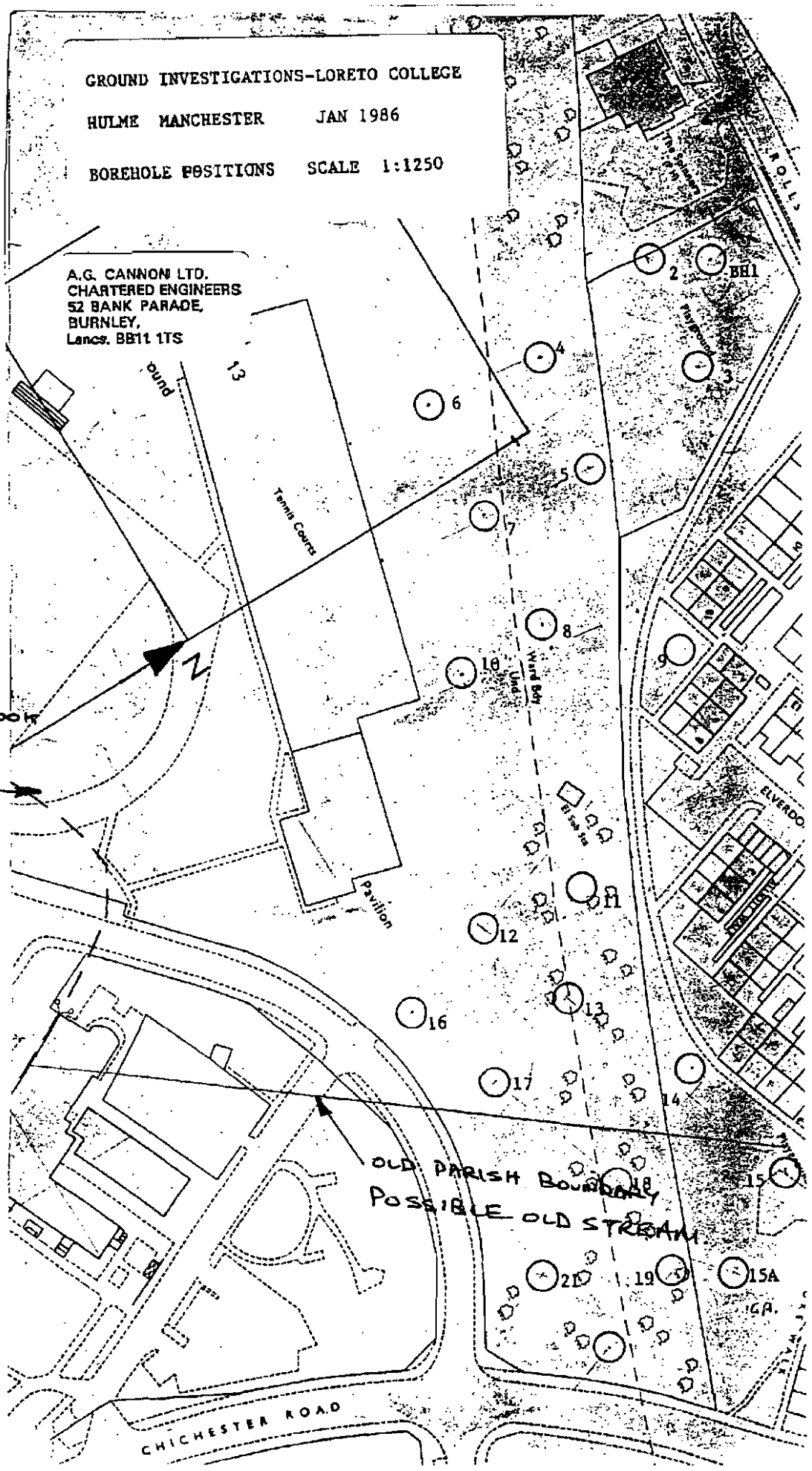





British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3760 .]





British Geological Survey
© All rights are reserved by the copyright proprietors.
[SJ89NW BJ 3760 .]

British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3760

383362
396345

BOREHOLE LOGS

Site: Loretto College, Hulme.

Worms Eye Site Investigation
52 Bank Parade
Burnley

25mm diameter percussion rig

BOREHOLE No. 14

Date: 20th December 1985

Located: childrens playground, Alan Broo
walk on elevated mound.

| Depth (m) | Penetration Rate (secs) | Description |
|---|---|---|
| 0.1 | | |
| | 12 | |
| 1.1 | | FILL - brick, ash, clay |
| | 18 | |
| 2.1 | | FILL? - (poor sample) |
| | 99 | |
| 3.1 | | FILL - brick, clay, stone |
| | 87 | |
| 4.1 | | Coarse brown SAND. |

British Geological Survey

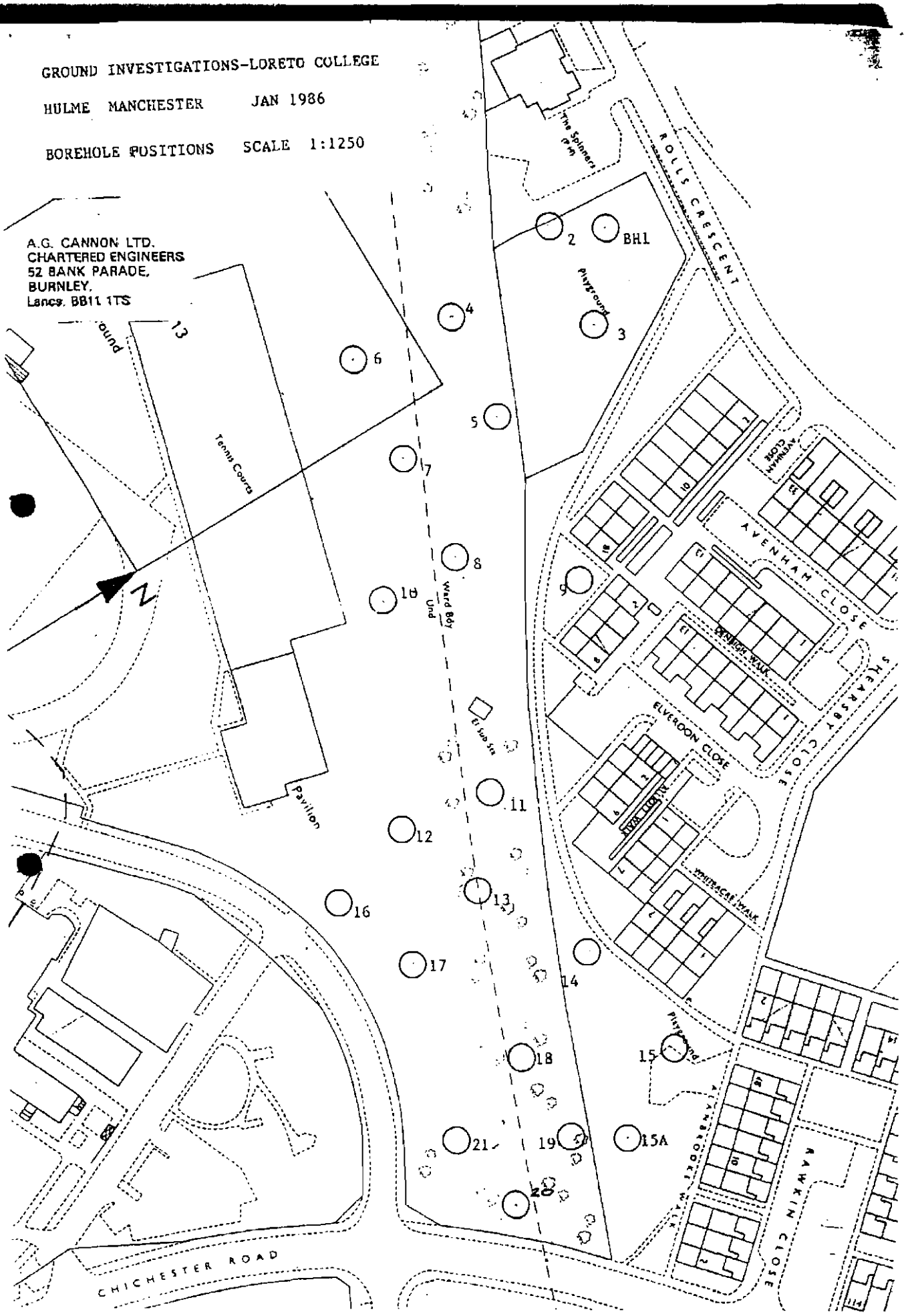
© All rights are reserved by the copyright proprietors.

GROUND INVESTIGATIONS-LORETO COLLEGE

HULME MANCHESTER JAN 1986

BOREHOLE POSITIONS SCALE 1:1250

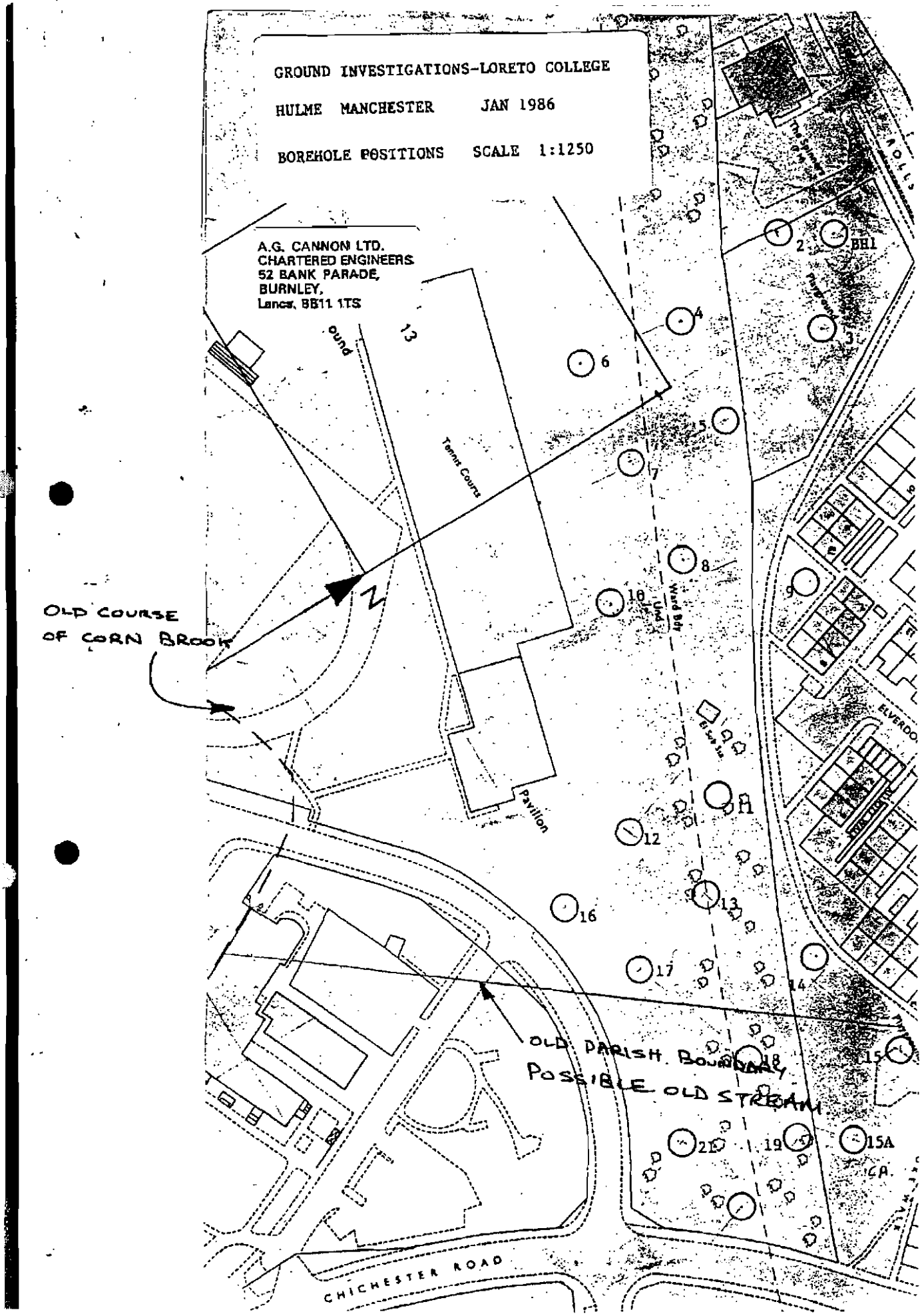
A.G. CANNON LTD.
CHARTERED ENGINEERS
52 BANK PARADE,
BURNLEY,
Lancs. BB11 1TS





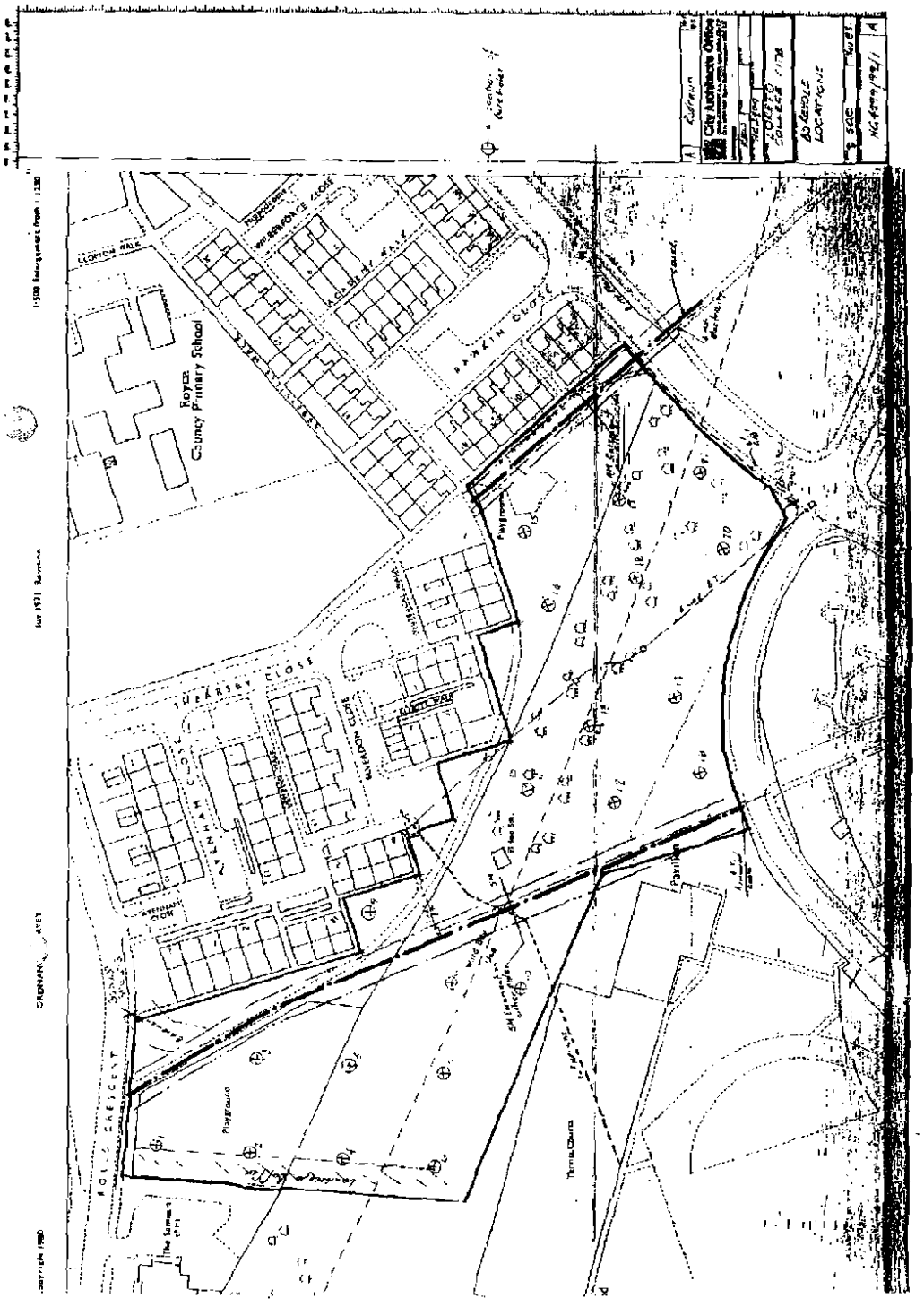

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3757 .]






British Geological Survey
© All rights are reserved by the copyright proprietors.




British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3757

[redacted] 383381
[redacted] 396291

BOREHOLE LOGS

Site: Loretto College, Hulme.

Worms Eye Site Investigation
52 Bank Parade
Burnley

25mm diameter percussion rig.
BOREHOLE NO.20

Date: 19th December 1985

Located: playing fields

| Depth (m) | Penetration Rate (secs) | Description |
|---|---|---|
| 0.1 | | |
| | 60 (v soft 0.8 - 1.1) | |
| 1.1 | | FILL - brick stone over v soft ashy cl |
| | 33 (mainly v. soft) | |
| 2.1 | | FILL - very soft ash & clay |
| | 130 | |
| 2.3 (refusal) | | Sandy GRAVEL. |
| | Generally dry. | |



British Geological Survey

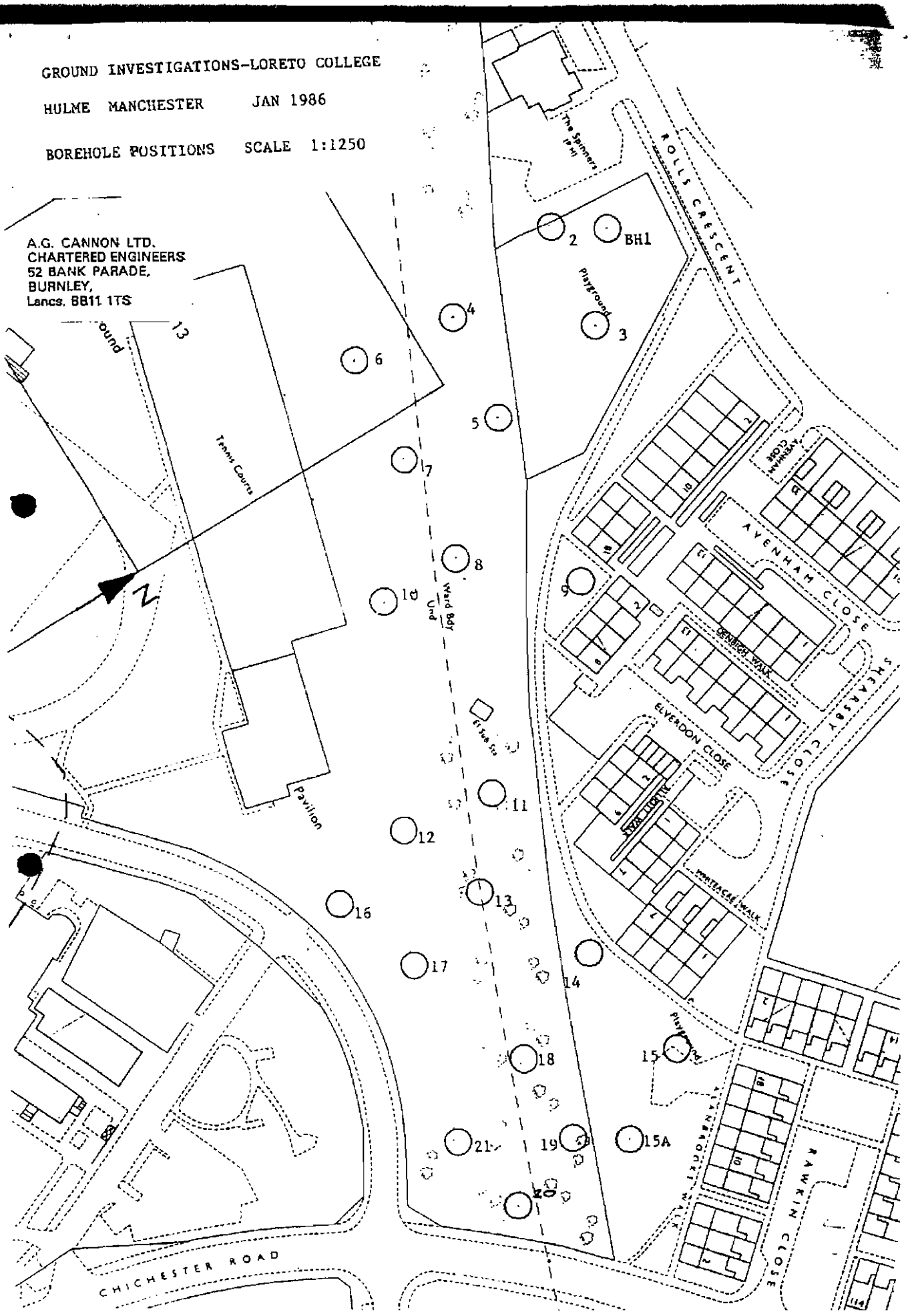
© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3763 .]

GROUND INVESTIGATIONS-LORETO COLLEGE

HULME MANCHESTER JAN 1986

BOREHOLE POSITIONS SCALE 1:1250

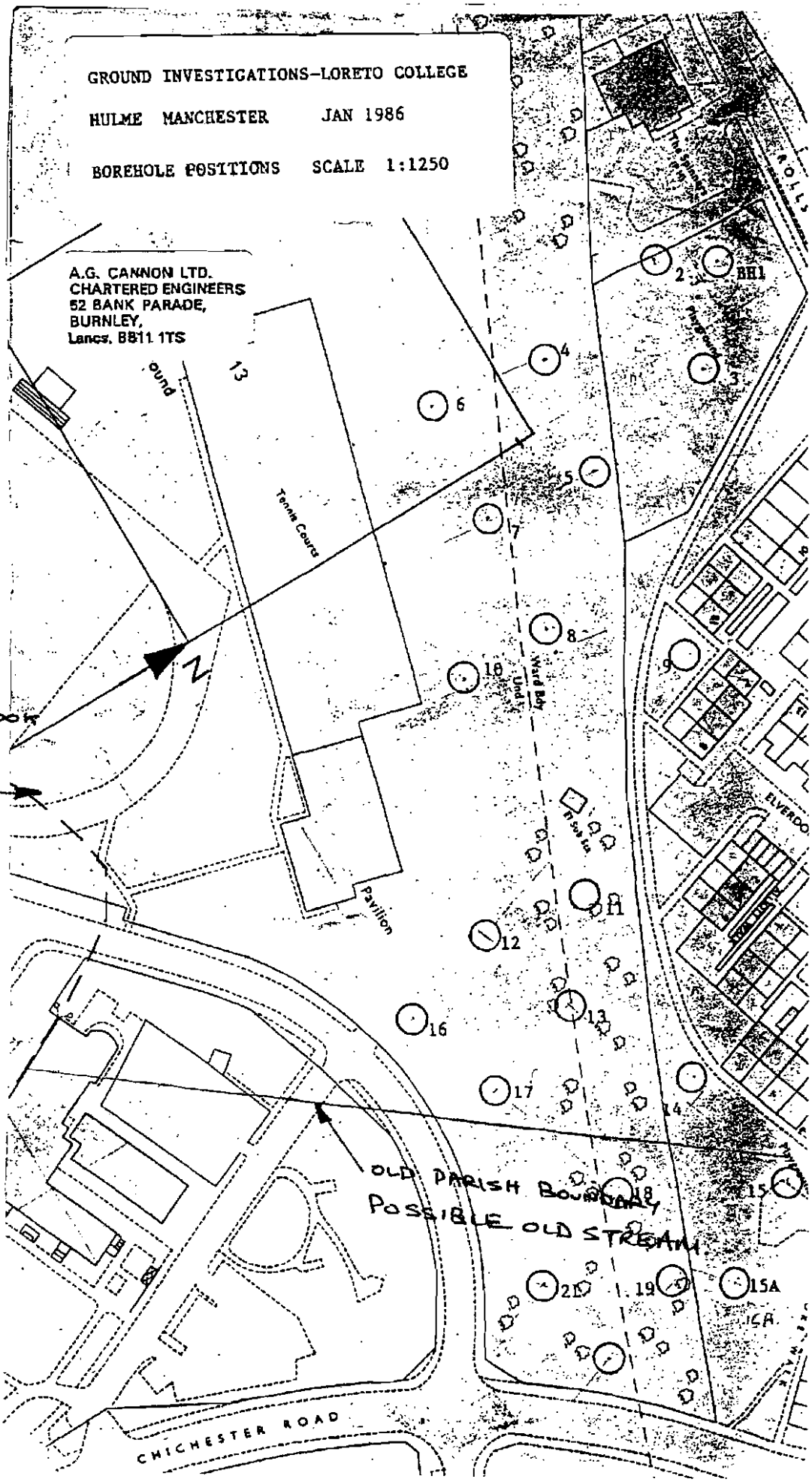





British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3763 .]






British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3763 .]

British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3763

383405
396299

## BOREHOLE LOGS

Site: Loretto College, Hulme.

Worms Eye Site Investigation
52 Bank Parade
Burnley

25mm diameter percussion rig

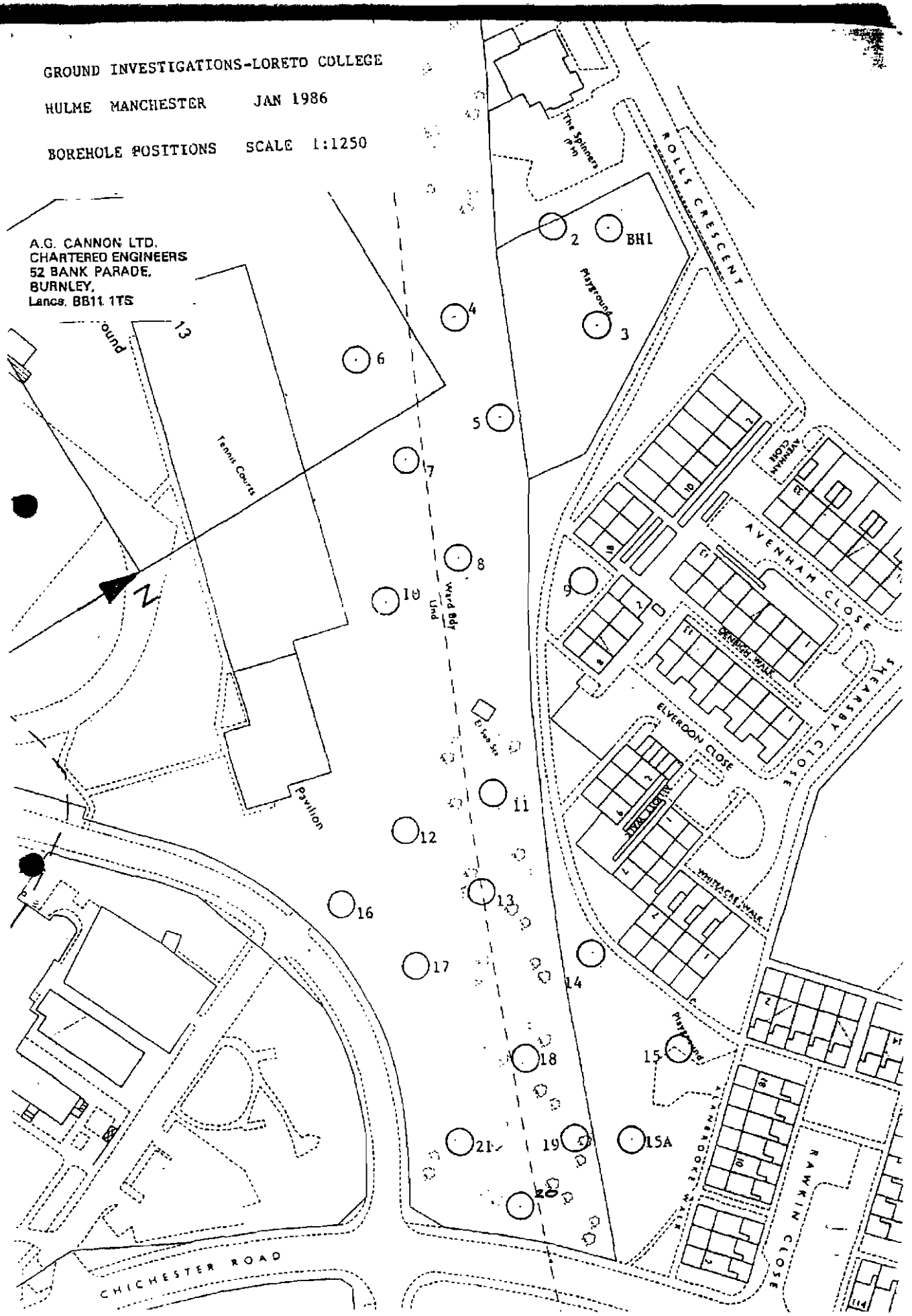
BOREHOLE No. 21

Date: 19th December 1985
Located: playing fields

| Depth (m) | Penetration Rate (secs) | Description |
|---|---|---|
| 0.1 | | |
| | 40 | |
| 1.1 | | stony clay (FILL?) (poor sample) |
| | 67 | |
| 2.1 | | firm grey brown sandy CLAY |
| | 125 | |
| 2.8 | | sandy GRAVEL (poor sample) |
| | Borehole dry | |

British Geological Survey

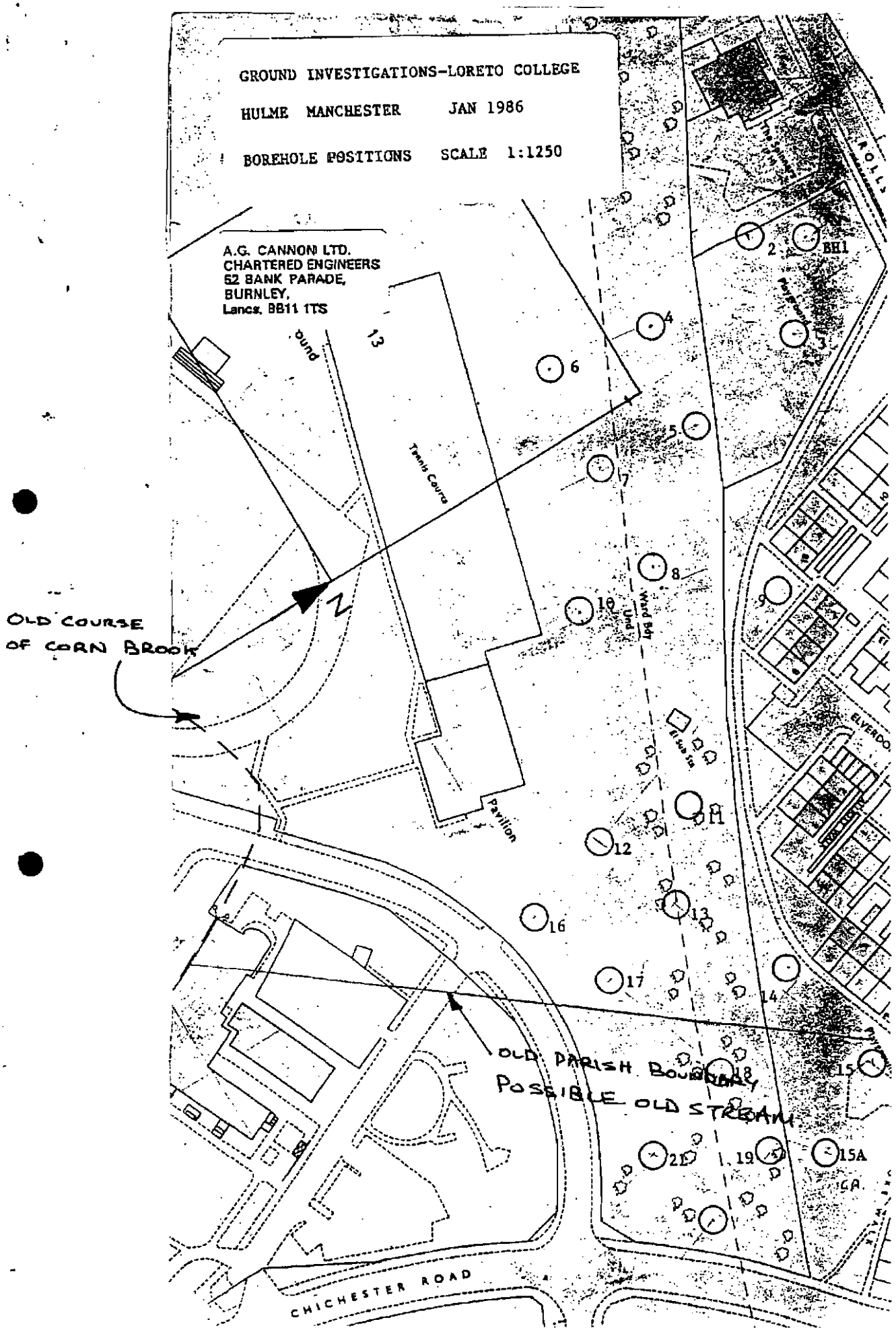
© All rights are reserved by the copyright proprietors.





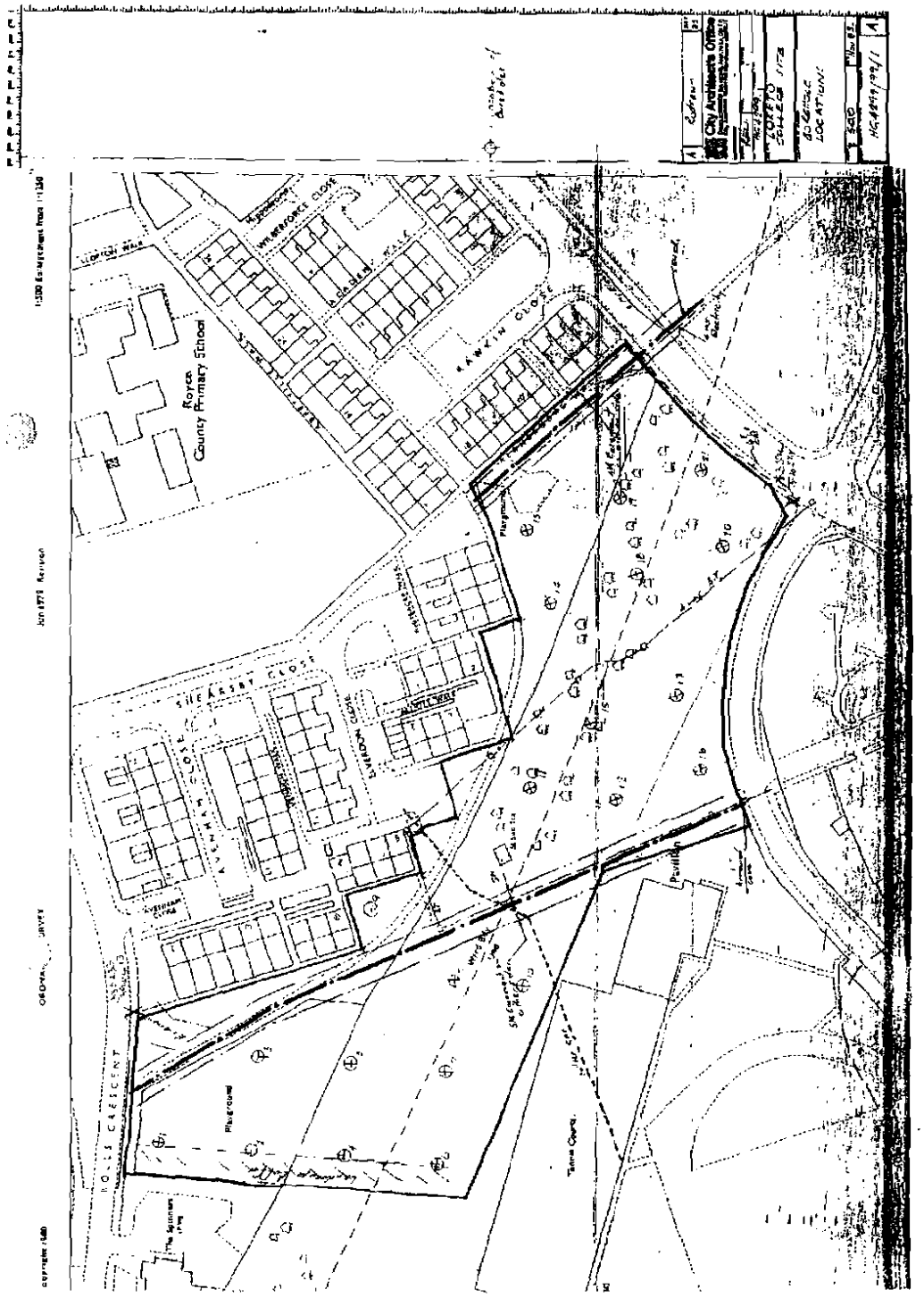

British Geological Survey
© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3764 .]





British Geological Survey
© All rights are reserved by the copyright proprietors.




British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 3764

67

G.S.M. Nos. 136 - 137.

87
103

(D11867) Wt. 17852—S144—5,000 12/20 Gp. 100. O.A.

# SJ89NW 42-143

SECTION OF Boreholes at Moss Lane District & Manchester

Maps: One-inch 85 Six-inch 104 S.W.E. County Lancs.

Height above O.D. Latitude Longitude

Communicated by Manchester Corporation Date of Sinking

Made by Dip of Strata

| | | Thickness. | | | Depth from Surface. | | |
|---|---|---|---|---|---|---|---|
| No. 136 No. 42 **142** .03 ft. O.D. Corner of Clayton St. & Upper Moss Lane, HULME. | | | | | | | |
| | Filling | 0.61 | 2 | - | 0.61 | 2 | - |
| | Loam | 0.61 | 2 | - | 1.22 | 4 | - |
| 104 S.W.E. | Sandy gravel | 0.91 | 3 | - | 2.13 | 7 | - |
| | Stiff soapy clay | 2.13 | 7 | - | 4.27 | 14 | - |
| | Sand & a little gravel | 6.10 | 20 | - | 10.36 | 34 | - |
| | Stiff soapy clay. | 0.76 | 2 | 6 | 11.13 | 36 | 6 |
| No. 137 No. 43 **143** Corner of Darncombe St. & Moss Lane East. MOSS SIDE. | | | | | | | |
| | Filling | 0.31 | 1 | - | 0.31 | 1 | - |
| | Yellow loamy clay | 1.52 | 5 | - | 1.83 | 6 | - |
| 104 S.W.E. | Stiff soapy clay. | 6.71 | 22 | - | 8.53 | 28 | - |
| | Rough gravel & sand. | 1.22 | 4 | - | 9.75 | 32 | - |
| | Red sandstone. | 0.46 | 1 | 6 | 10.21 | 33 | 6 |

British Geological Survey

© All rights are reserved by the copyright proprietors.

95

SJ89NW 2037
8312 9615

# BO LOG

Site CLIFFORD WARD STRETFORD

Client BOROUGH ENGINEER - STRETFORD

Borehole No. 1.

Ground Level

Job No. S.I. 1091

Date Feb. 1967

Diameter 6 inch.

Scale 1/8" to 1ft.

| Description | Depth | Legend | Sample | 'N' Value | Shear Strength | Water Levels |
|---|---|---|---|---|---|---|
| | | | | | lb/sq ft. | |
| Brick fill 0.5 | 1' 9" | | | | | |
| Firm sandy clay 1.4 | 3' 6" | | I | 10 | | |
| Compact clayey sand and gravel 2.3 | 7' 6" | | I | 25 | | final water level 10' 0" |
| Compact sand and gravel 3.81 | 12' 6" | | I | 32 | | water seepage 11' 0" |
| Firm plastic boulder clay. 6.1 | 20'-0" | | ■ | | 1500 | |
| Stiff boulder clay 11.4 | 39' 0" | | ■ | | 1730 | |
| | | | ■ | | 2370 | |
| | | | ■ | | 3120 | water seepage 39' 0" |
| Compact weathered Bunter sandstone 17.8 | 42' 0" | | I | 78 | | |

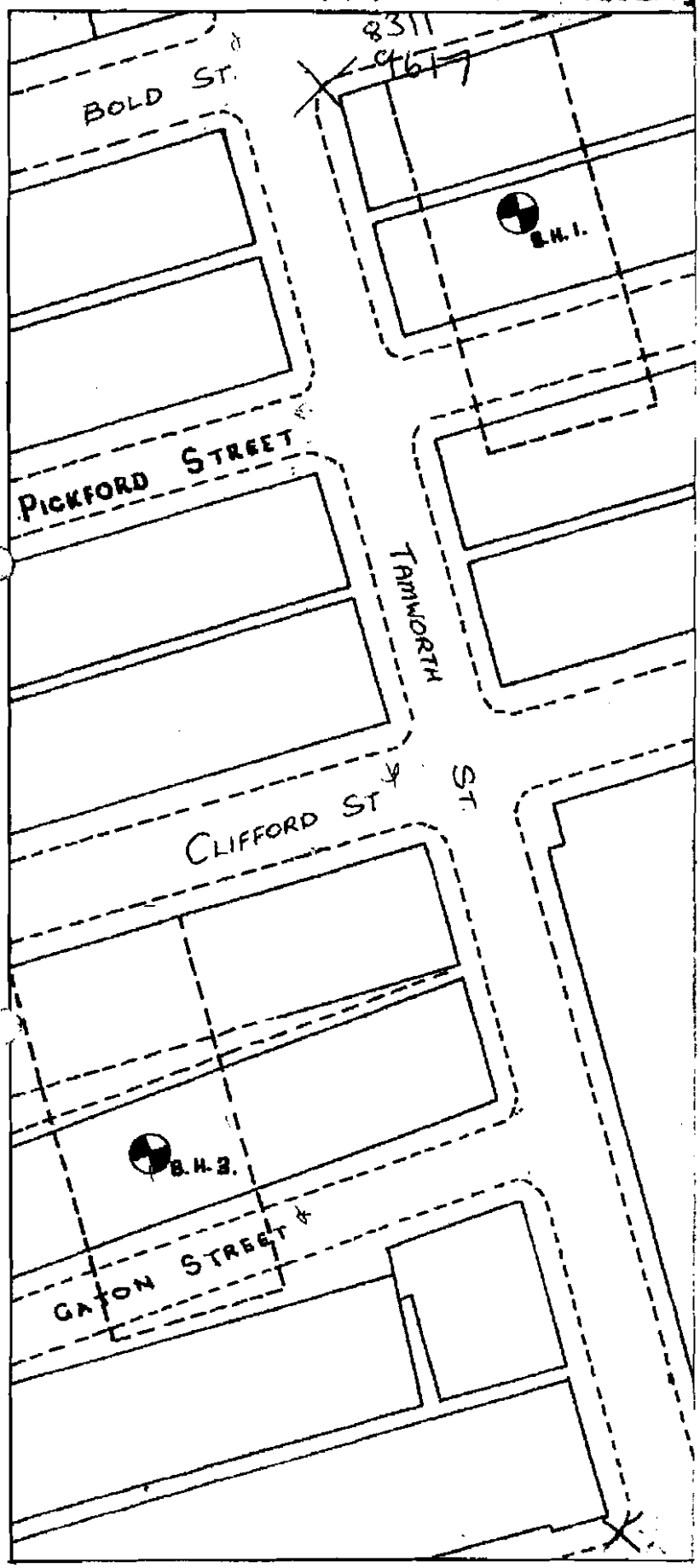
MATTHEWS & MUMBY (FOUNDATIONS) LTD MANCHESTER

British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 2037

KEY PLAN Showing




SJ89NW
2037 2038

8313
9605

231 960


British Geological Survey
© All rights are reserved by the copyright proprietors.
[SJ89NW BJ 2037

99

# BOREHOLE LOG

SJ89NW 2038
8309 4608

Site CLIFFORD WARD STRETFORD — Job No. S.I. 1091

Client BOROUGH ENGINEER - STRETFORD — Date Feb. 1967

Borehole No. 3 — Diameter 6 inch.

Ground Level — Scale 1/8" to 1ft.

| Description | Depth | Legend | Sample | 'N' Value | Shear Strength | Water Levels |
|---|---|---|---|---|---|---|
| Firm sandy clay 1.1 | 3' 6" | | I | 10 | | |
| Compact moist fine sand 2.3 | 7' 6" | | I | 14 | | |
| Compact sand and gravel 4 | 13' 0" | | I | 31 | | water entry & final 12' 0" |
| Firm plastic boulder clay. 7.3 | 24'-0" | | ■ | | 1510 | |
| Stiff boulder clay | | | ■ | | 2340 | |
| | | | ■ | | 2210 | |
| Compact sand and gravel 13 | 42' 6" | | ■ | | 3305 | |
| Compact weathered Bunter sandstone 17.7 | 45' 0" | | I | | | |

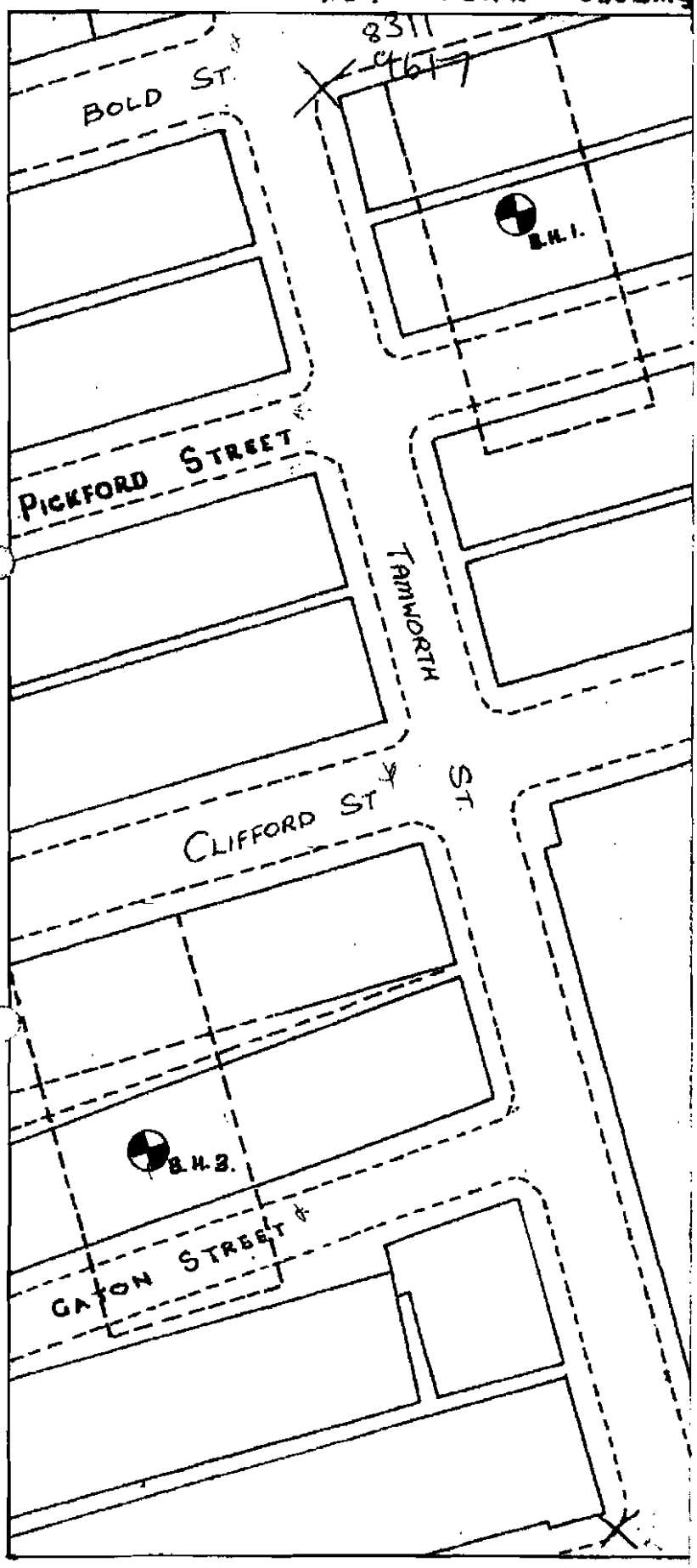
MATTHEWS & MUMBY (FOUNDATIONS) LTD MANCHES.

British Geological Survey

© All rights are reserved by the copyright proprietors.

[SJ89NW BJ 2038 .]

KEY PLAN Showing




SJ89NW
2038 2038

8313
9605

8.31 960


British Geological Survey
© All rights are reserved by the copyright proprietors.
[SJ89NW BJ 2038]

100

85

CENTRAL LS NORTH WEST EA

SJ89/241

FORM WR - 38

Agency No: Consent Nº 1083.

ENVIRONMENT AGENCY

# BOREHOLE RECORD

## A. SITE DETAILS

SJ29 NW

| | | |
|---|---|---|
| Borehole drilled for | HYDES ANVIL BREWERY | |
| Location | MOSS LANE WEST, MANCHESTER | |
| NGR (8 fig)<br>Ground Level (if known) | SJ 8325 9584 | Please attach site plan |
| Drilling Company | BLAIR DRILLING | |
| Date of drilling | Commenced: 14·8·98 | Completed: 2·10·98 |

## B. CONSTRUCTION DETAILS

Borehole datum (if not ground level)..... above / m below GL
(point from which all measurements of depth are taken eg flange, edge of chamber, etc)

| | | | | | |
|---|---|---|---|---|---|
| Borehole drilled diameter ..... | 425 | mm from | 0 | to | 10m m/depth |
| | 350 | mm from | 10m | to | 30·4 m/depth |
| | 300 | mm from | 30·4 | to | 72 m/depth |
| Casing material PLASTIC diameter | 375 | mm from | 0 | to | 10 m/depth |
| and type (eg plain steel, plastic slotted) STEEL diameter | 300 | mm from | 0 | to | 30·4 m/depth |
| _____ diameter | _____ | mm from | _____ | to | _____ m/depth |
| _____ diameter | _____ | mm from | _____ | to | _____ m/depth |

Grouting details 30·4

Water struck at 10·8 m (depth below datum - mbd)

_____ m (depth below datum - mbd)

Rest water level on completion 6·3 m (depth below datum - mbd)

GROUNDWATER
DATE RECEIVED 10 - 12 - 98

British Geological Survey

© All rights are reserved by the copyright proprietors.

85

CENTRAL LS NORTH WEST EA

~~SJ89/2441~~

FORM WR - 38

Agency No: Consent Nº 1083.

ENVIRONMENT AGENCY

SJ 89 NW 873

## BOREHOLE RECORD

A. **SITE DETAILS**

SJ 89 NW

| | | |
|---|---|---|
| Borehole drilled for | HYDES ANVIL BREWERY | |
| Location | MOSS LANE WEST, MANCHESTER | |
| NGR (8 fig) Ground Level (if known) | SJ 8325 \| 9584 | Please attach site plan |
| Drilling Company | BLAIR DRILLING | |
| Date of drilling | Commenced: 14·8·98 | Completed: 2·10·98 |

B. **CONSTRUCTION DETAILS**

Borehole datum (if not ground level)..... above / m below GL
(point from which all measurements of depth are taken eg flange, edge of chamber, etc)

Borehole drilled diameter ..... 425 mm from 0 to 10m m/depth

350 mm from 10m to 30·4 m/depth

300 mm from 30·4 to 72 m/depth

Casing material PLASTIC diameter 375 mm from 0 to 10 m/depth
and type (eg plain steel, plastic slotted)

STEEL diameter 300 mm from 0 to 30·4 m/depth

_____ diameter _____ mm from _____ to _____ m/depth

_____ diameter _____ mm from _____ to _____ m/depth

Grouting details 30·4

Water struck at 10·8 m (depth below datum - mbd)

_____ m (depth below datum - mbd)

Rest water level on completion 6·3 m (depth below datum - mbd)

GROUNDWATER
DATE RECEIVED 10 - 12 - 98

NGDC ACCESSION NUMBER
34459

British Geological Survey
© All rights are reserved by the copyright proprietors.
[SJ89NW BJ 873 .]

SJ89/241

C. ***TEST PUMPING SUMMARY*** (Please supply fully details on Form WR - 39)

| | | |
|---|---|---|
| Test Pumping Datum (if different from borehole datum) | _____ (mbd) | above / m below borehole datum |
| Pump Suction Depth | _____ | mbd |
| Water Level (Start of Test) | _____ | mbd |
| Water Level (End of Test) | _____ | mbd |
| Pumping rate | _____ | $m^3/d$ : l/s |
| for | _____ | days/hours |
| Recovery to (from end of pumping) | _____ mbd in _____ | mins : hrs : days |
| Date(s) of measurements | _____ | |

Please Supply Chemical Analysis If Available

D. ***STRATA LOG***

| Geological Classification (BGS only) | Description of Strata | Thickness m | Depth m |
|---|---|---|---|
| | TARMAC | 0.1 | 0.1 |
| | ASH | 0.6 | 0.7 |
| | GREEN CLAY WITH PIECES OF SANDSTONE | 3.4 | 4.1 |
| | YELLOW CLAY | 0.3 | 4.4 |
| | COURSE SANDSTONE (BOULDER OR SHELF) | 2.4 | 6.8 |
| | BROWN MARL | 2.0 | 8.8 |
| | HARD MARL WITH BITS OF COAL | 1.2 | 10.0 |
| | HARD RED SANDSTONE | 5.3 | 15.3 |
| | LIGHT BROWN SANDSTONE | 4.0 | 19.3 |
| | HARD RED SANDSTONE | 10.00 | 29.3 |
| | SOFT RED SANDSTONE | 4.7 | 34.0 |
| | RED HARD SANDSTONE | 38.0 | 72.0 |
| | [continue on separate page if necessary] | | |

Other Comments (eg gas encountered, saline water intercepted, etc)

MAIN WATER STRIKE AT 25.4 (LOTS OF WATER)

FOR OFFICIAL USE ONLY

FILE ..... CONSENT NO ..... BGS REF NO .....

LICENCE NO ..... USE OF BH ..... NGR.....


© All rights are reserved by the copyright proprietors.

SJ89/23T

C. ***TEST PUMPING SUMMARY*** (Please supply fully details on Form WR - 39)

| | | |
|---|---|---|
| Test Pumping Datum (if different from borehole datum) | _____ (mbd) | above / m below borehole datum |
| Pump Suction Depth | _____ | mbd |
| Water Level (Start of Test) | _____ | mbd |
| Water Level (End of Test) | _____ | mbd |
| Pumping rate | _____ | $m^3/d$ : l/s |
| for | _____ | days/hours |
| Recovery to (from end of pumping) | mbd _____ in _____ | mins : hrs : days |
| Date(s) of measurements | _____ | |
| Please Supply Chemical Analysis If Available | | |

D. ***STRATA LOG***

| Geological Classification (BGS only) | Description of Strata | Thickness m | Depth m |
|---|---|---|---|
| | TARMAC | 0.1 | 0.1 |
| | ASH | 0.6 | 0.7 |
| | GREEN CLAY WITH PIECES OF SANDSTONE | 3.4 | 4.1 |
| | YELLOW CLAY | 0.3 | 4.4 |
| | COURSE SANDSTONE (BOULDER OR SHELF) | 2.4 | 6.8 |
| | BROWN MARL | 2.0 | 8.8 |
| | HARD MARL WITH BITS OF COAL | 1.2 | 10.0 |
| | HARD RED SANDSTONE | 5.3 | 15.3 |
| | NIGHT BROWN SANDSTONE | 4.0 | 19.3 |
| | HARD RED SANDSTONE | 10.00 | 29.3 |
| | SOFT RED SANDSTONE | 4.7 | 34.0 |
| | RED HARD SANDSTONE | 38.0 | 72.0 |
| | [continue on separate page if necessary] | | |
| | Other Comments (eg gas encountered, saline water intercepted, etc) MAIN WATER STRIKE AT 25.4 (LOTS OF WATER) | | |

FOR OFFICIAL USE ONLY

FILE ..... CONSENT NO ..... BGS REF NO .....

LICENCE NO ..... USE OF BH ..... NGR.....


© All rights are reserved by the copyright proprietors.

| Name of site | W R B No. |
|---|---|
| HYDES ANVIL BREWERY | SJ 89/241 |

| | | | |
|---|---|---|---|
| Owner HYDES | Licence no. Appn no. Cancelled | Nat. grid ref. SJ 8325 9584 | |
| Occupier | IGS ref. no. | Status ABH. | |
| Ground Level m OD ft. OD | | Aquifer P-T SANDSTONE | |
| Level of well top m OD ft. OD | | Code | |
| Rest water level m bwt ft. bwt | | Summary of geological section | Thickness / Depth |
| (Date ) m OD ft. OD | | | |
| Construction: Method Date | | | |

| Depth bwt | Dia. | Linings (below well top) From | To | Dia. | Type |
|---|---|---|---|---|---|
| 72m | 300mm | 0 | [illegible] | 375mm | Plastic |
| | | 0 | 30.4m | 300mm | Steel |
| | | | | | |
| | | | | | |
| | | | | | |

| | | |
|---|---|---|
| Abstraction rates | Type of pump | |
| gph PWL | Chem./bact. anal. | YES/NO |
| gpd | Well driller | |

If insufficient specs has been allowed, continue in 'Notes' overleaf.

Lockie 162

REPLACEMENT B/H FOR SJ89/186

British Geological Survey

© All rights are reserved by the copyright proprietors.



[SJ89NW BJ 873 .

# Appendix F: Coal Authority Report

The Coal Authority

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

KATIE BELL,
FABER MAUNSELL LTD,
CHURCH STREET,
ALTRINCHAM,
CHESHIRE,
WA14 4DZ

| | |
|---|---|
| Person dealing with this matter: | **Phil Huddleston** |
| Our reference: | **10231791-07** |
| Your reference: | |
| Electronic Ref: | |
| RRUID: | 007.00018535320001 |
| Date of your enquiry: | **19 June 2007** |
| Date we received your enquiry: | **19 June 2007** |
| Date of issue: | **20 June 2007** |

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

## Coal and Brine Report

## Loreto Sixth Form College, Chichester Road, Hulme, Manchester, Lancashire, M15 5PB

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

| | |
|---|---|
| Coal mining | Yes |
| Brine extraction | No |

### *Information from the Coal Authority*

### Underground Coal Mining

#### Past

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

#### Present

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

#### Future

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

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

*All rights reserved.* You must not reproduce, store or transmit any part of this document unless you have our written permission.

© The Coal Authority

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

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

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

## Mine entries

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

## Coal-mining geology

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

## Opencast Coal Mining

### Past

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

### Present

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

### Future

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

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

## Coal-mining subsidence

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

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

## Mine gas

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

## Hazards related to coal mining

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

## Withdrawal of Support

The property is not in an area for which a notice of entitlement to withdraw support has been published.

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

© The Coal Authority

### Working Facilities Orders

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

### Payments to Owners of Former Copyhold Land

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

## *Information from the Cheshire Brine Subsidence Compensation Board*

The property lies outside the Cheshire Brine Compensation District.

### Additional remarks

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

The Coal Authority owns the copyright in this report. The information we have used to write this report is protected by our database right. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

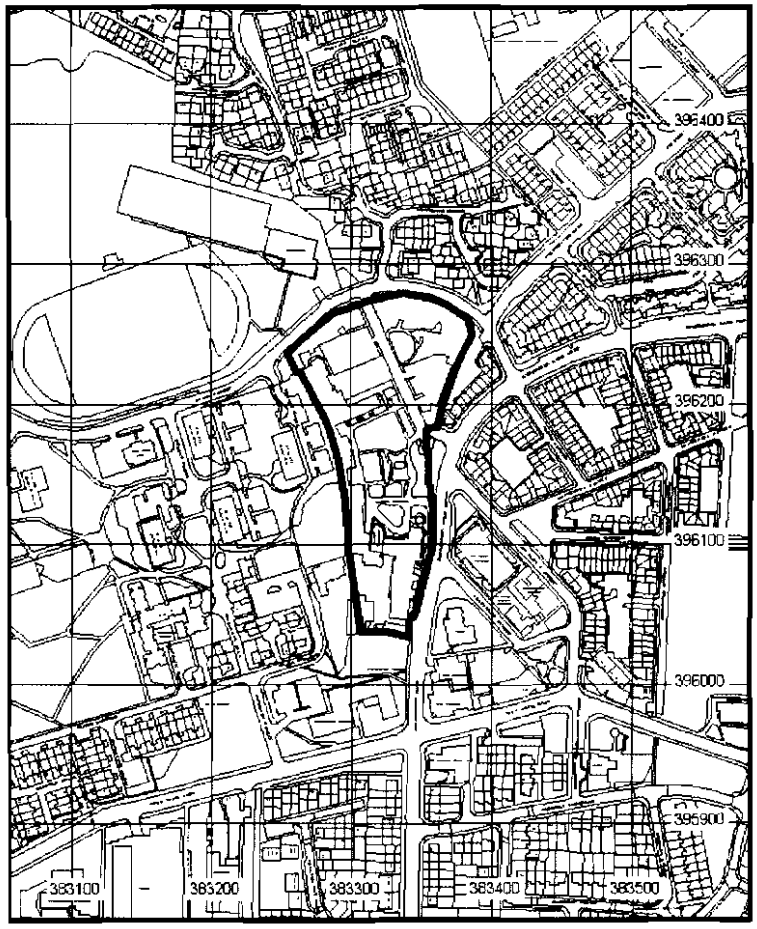
***Location map***

Approximate position of property




***Enquiry boundary***

These maps are reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. The Coal Authority. Licence number: 100020315. [2006]




Key

Approximate position of enquiry boundary shown

Ordnance Survey

# Appendix G: Risk Characterisation

After CIRIA document 552: 'Contaminated Land Risk Assessment; A Guide to good practice' (Ref. 12).

**Table 11: Classification of Consequence**

| Classification | Definition |
|---|---|
| **Severe** | Short-term (acute) risk to human health likely to result in "significant harm" as defined in the Environmental Protection Act, Part IIA. Short-term risk of pollution of sensitive water resource (note: Water Resources Act contains no scope for considering significance of pollution). Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definitions of ecological systems within the Draft Circular on Contaminated Land, DETR. 2000) |
| **Medium** | Chronic damage to Human Health ("signifieant harm" as defined in DETR, 2000). Pollution of sensitive water resources (note: Water Resources Act 1991 contains no scope for considering significanee of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem. (note: the definitions of ecological systems within Draft Circular on Contaminated Land, DETR, 2000) |
| **Mild** | Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ("significant harm" as defined in the Draft Circular on Contaminated Land, DETR, 2000). Damage to sensitive buildings/services or the environment |
| **Minor** | Harm, although not necessarily significant, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.). Easily repairable effects of damage to buildings, structures and services. |

**Table 12: Classification of Probability**

| Classification | Definition |
|---|---|
| **High likelihood** | There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution |
| **Likely** | There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur.<br>Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term. |
| **Low Likelihood** | There is a pollution linkage and circumstances are possible under which an event could occur.<br>However, it is by no means certain that even over a longer period such an event would take place, and is less likely in the shorter term. |
| **Unlikely** | There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term. |

**Table 13: Comparison of Consequence against Probability**

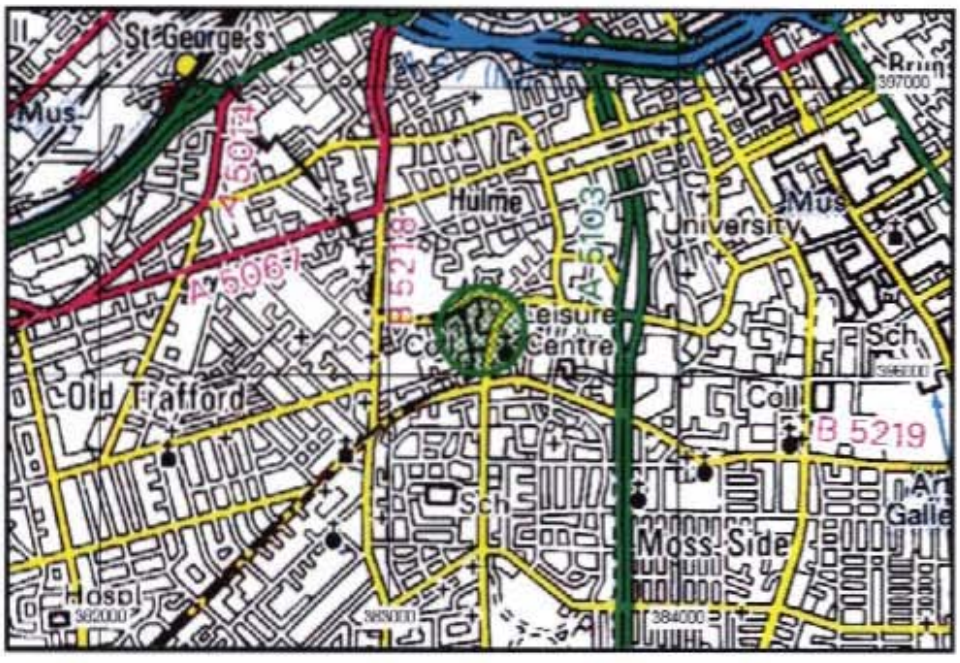
| Probability | Consequence | | | |
|---|---|---|---|---|
| | Severe | Medium | Mild | Minor |
| High Likelihood | Very High Risk | High risk | Moderate risk | Moderate Risk/low risk |
| Likely | High Risk | Moderate risk | Moderate/ low risk | Low risk |
| Low Likelihood | Moderate risk | Moderate risk/low risk | Low risk | Very low risk |
| Unlikely | Moderate/Low risk | Low risk | Very low risk | Very low risk |

**Table 14: Description of Classified Risks and Likely Action Required**

| Risk Descriptor | Definition |
|---|---|
| **Very high risk** | There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to the designated receptor is currently happening<br>The risk, if realised, is likely to result in substantial liability.<br>Urgent investigation (if not undertaken already) and remediation are likely to be required |
| **High risk** | Harm is likely to arise to a designated receptor from an identified hazard.<br>The risk, if realised, is likely to result in substantial liability.<br>Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely in the long term. |
| **Moderate Risk** | It is possible that harm could arise to a designated receptor for an identified hazard. However, if it is either 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.<br>Investigation (if not already undertaken) is normally required to clarify the risk, and to determine the potential liability. Some remedial works may be required in the long term. |
| **Low Risk** | It is possible that harm could arise to a designated receptor for an identified hazard, but it is likely that this harm, if realised, would at worst be mild |
| **Very Low Risk** | There is a low possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe. |

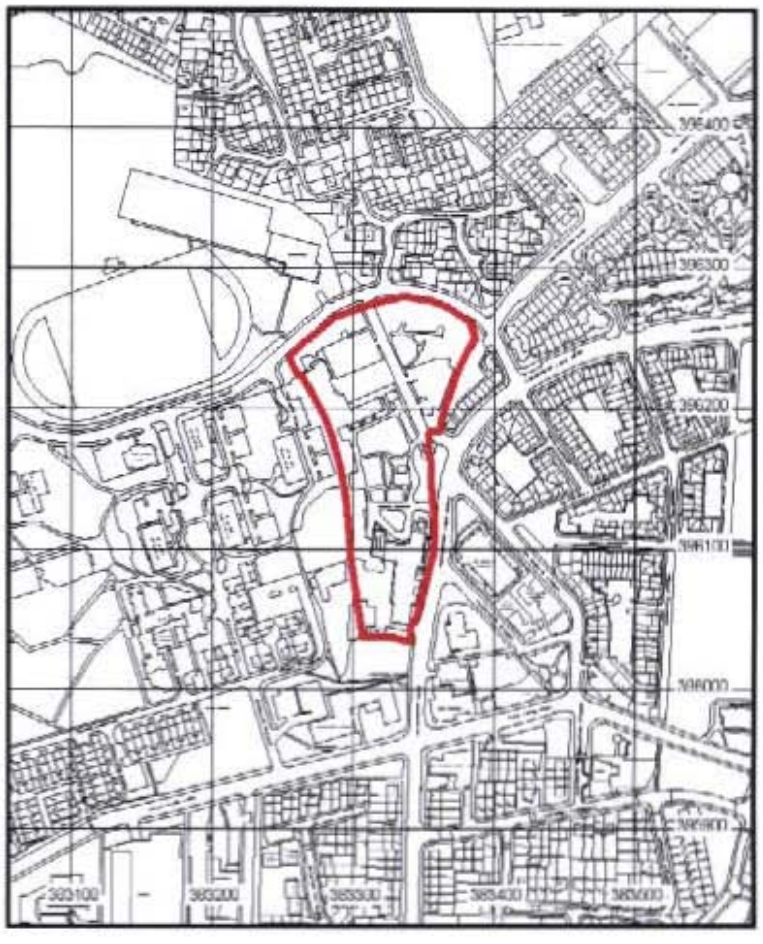
***Location map***

Approximate
position
of property




***Enquiry boundary***

These maps are reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office. © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. The Coal Authority. Licence number: 100020315. [2006]




Key

Approximate position of enquiry boundary shown

Mapping sourced from Ordnance Survey