

Site Walkover Photographs:



25. Possible subsidence in road noted, which may be underlain by Alluvium deposits. Located away from the proposed warehouse.



26. Existing workshop in the north-western corner of Development Site.



27. Tarmac repair patch on the access road to the north.

Site Walkover Photographs:



28. Access road to the north with temporary storage units.

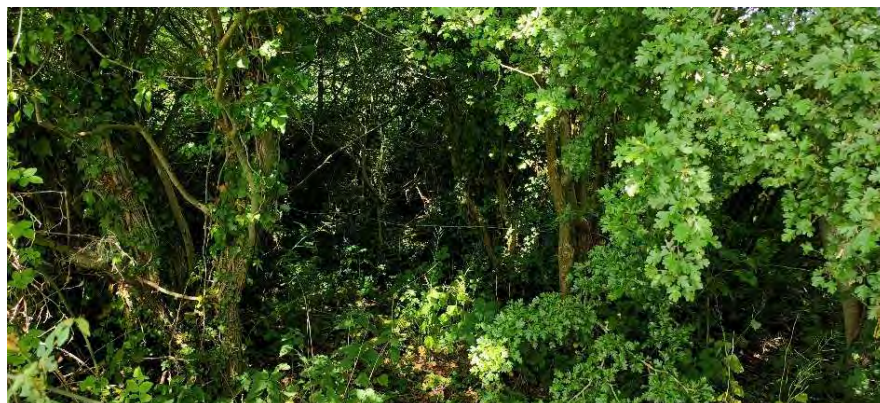


29. Access road and the overgrown area to the north, difference in levels and a gentle slope.



30. Overgrown area along the northern boundary of Development Site.

Site Walkover Photographs:



31. Watercourse along the northern and eastern boundary of the Site, observed dry during the site walkover.



32. Access road to between the northern boundary of the Site and the H-Pack warehouse.



33. Proposed new vehicle access from Rackery Lane

Site Walkover Photographs:



34. Change in levels and a gentle slope between the existing H-Pack car park and the north-eastern boundary.



35. A fence separating SHARP and H-Pack land, and trees along the proposed access from Rackery Lane.

APPENDIX 4

Historical Boreholes (British Geological Survey – BGS)

Historical Boreholes – source: British Geological Survey (BGS) Onshore GeoIndex.

SJ 35 NW/
~~364~~
364-375

SOILS & MATERIALS TESTING LTD.



REPORT No.
LS 1505

MARCH 1984

REPORT OF SOILS AND FOUNDATION CONDITIONS

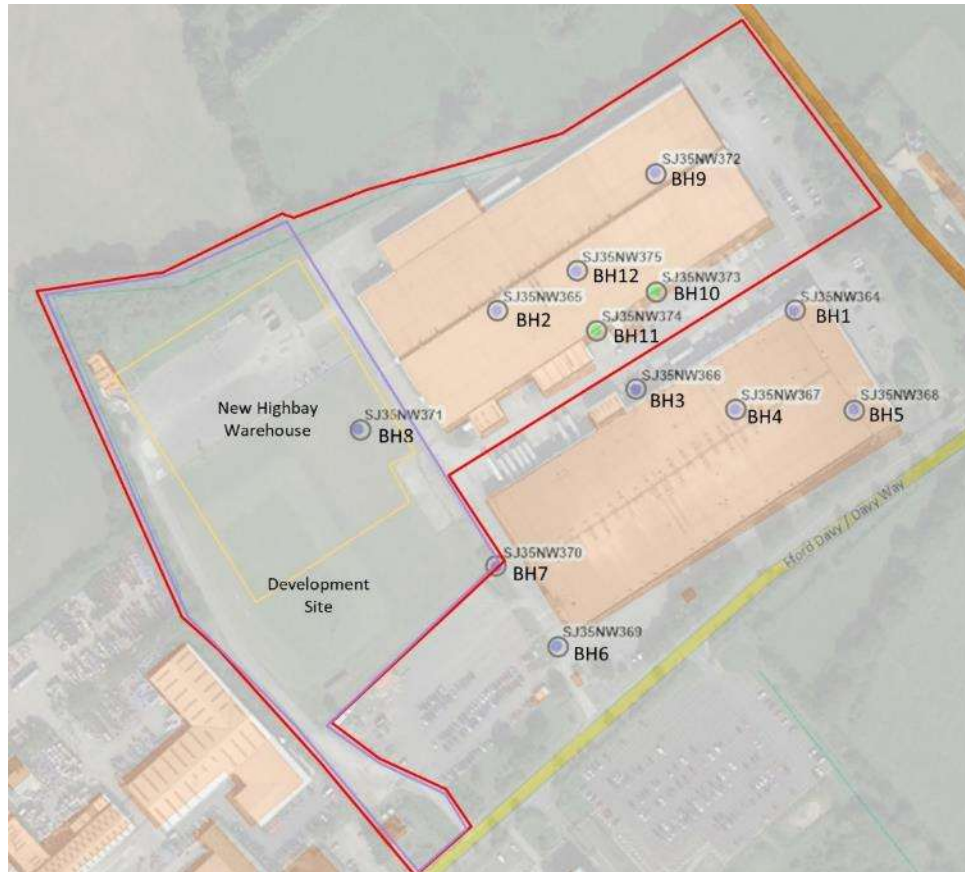
PROPOSED NEW INDUSTRIAL DEVELOPMENT, LLAY INDUSTRIAL
ESTATE (PHASE II), MINERS ROAD, LLAY.
(Contract 299)

By
M. J. CHETLEBURGH, B.Sc.
F.I.H.E., P.Eng. (Alberta), M.E.I.C.

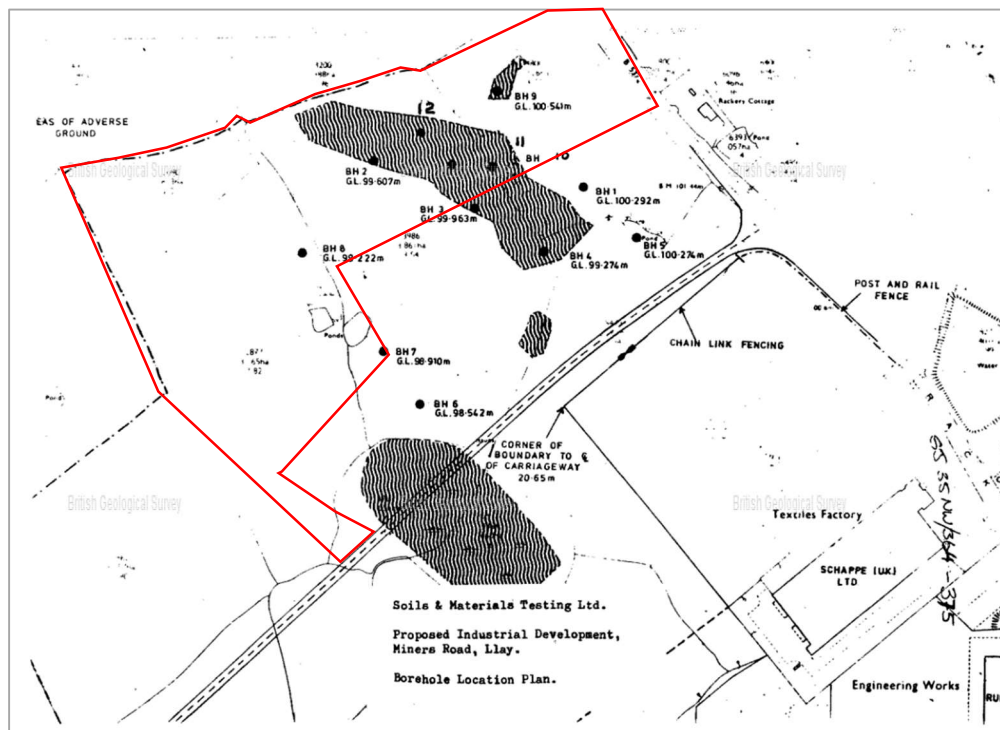
Prepared for:
Technical Services Department,
Wrexham-Maelor Borough Council,
Rhostyllen House,
Rhostyllen,
Wrexham.

SOILS & MATERIALS TESTING LTD.
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ABERGELE
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5473 Historical Boreholes



Borehole's locations according to BGS Onshore GeoIndex.

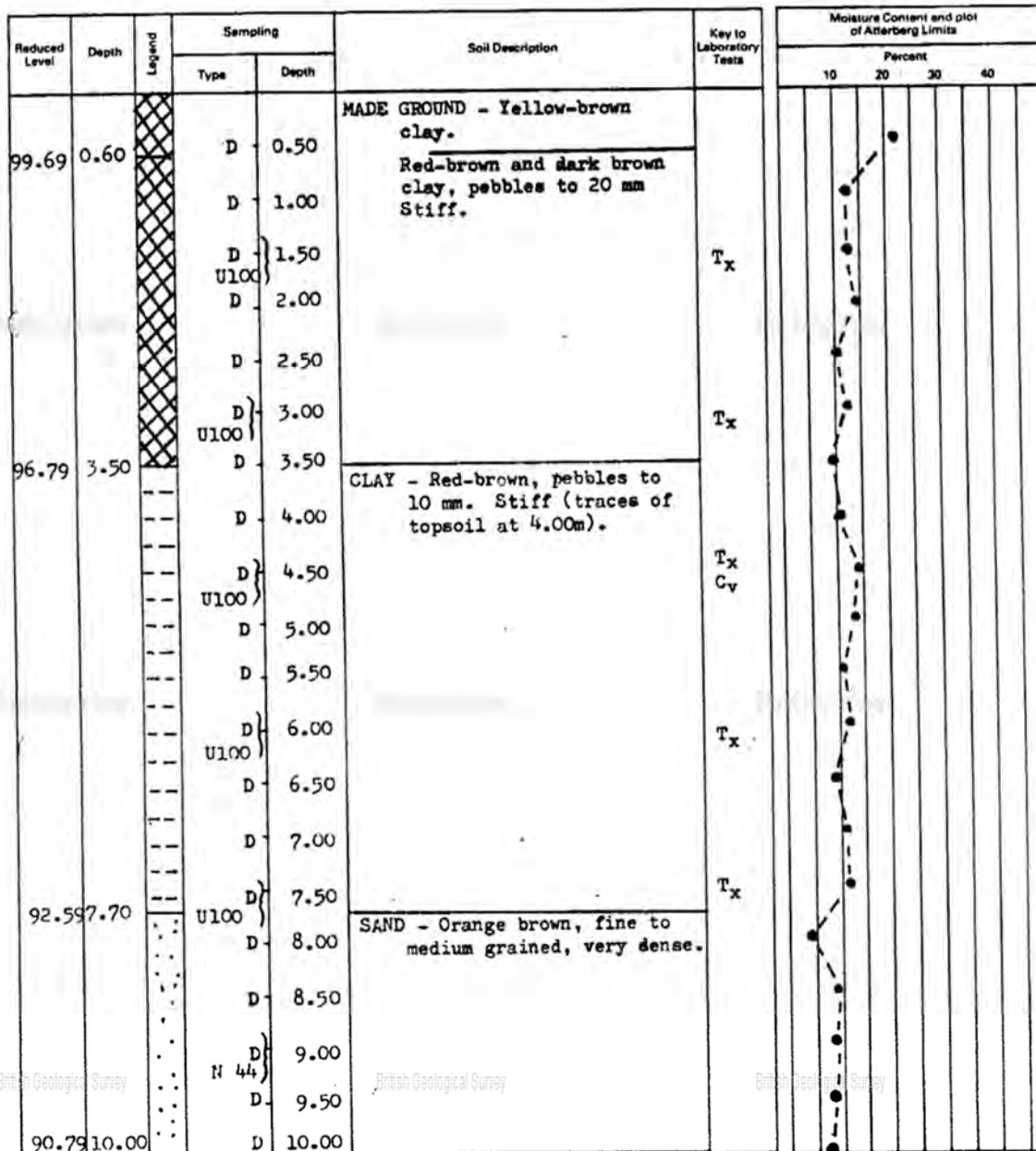


Location plan *Report of Soils and Foundation Conditions*, March 1984. Soils and Materials Testing Ltd.

SJ35NW364(BGS) – BH1

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT**LOCATION:** MINERS ROAD, LLAY.**GROUND LEVEL:** 100.29**TYPE OF BORING:** PERCUSSION RIG.**SCALE OF LOG:** 1 : 50**BOREHOLE NO.:** 1

SJ 35 NW / 364

DIA OF CASING: 154 mm.**DATE DRILLED:**
8th February**Ground water**

Encountered at Standing level	Nil		
Quantity			

SHEET 1 OF 1
SHEET No.

SJ35NW365(BGS) – BH2

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT

LOCATION: MINERS ROAD, LLAY.

GROUND LEVEL: 99.61

TYPE OF BORING: PERCUSSION RIG.

SCALE OF LOG: 1 : 50

BOREHOLE NO.: 2
SJ35NW/365

DIA OF CASING: 154 mm.

DATE DRILLED: 8/9th February

Reduced Level	Depth	Legend	Sampling		Soil Description	Key to Laboratory Tests	Moisture Content and plot of Atterberg Limits			
			Type	Depth			Percent			
							10	20	30	40
			D	0.50	MADE GROUND - Yellow brown clay sandy, stiff.					
			D	1.00						
			D } U100	1.50		C _v				
7.61	2.00		D	2.00						
			D	2.50	Grey-brown, pebbles to 20 mm. Soft.					
			D } U100	3.00		T _x C _v				
96.11	3.50		D	3.50						
			D	4.00	Red-brown, clay thin streaks of black topsoil firm to stiff.					
			D } U100	4.50		T _x				
94.91	4.70		D	5.00	Pebbly.					
94.61	5.00		D	5.00	CLAY - red-brown, silty pebbles to 20 mm. Stiff.					
			D	5.50						
			D } U100	6.00		T _x				
			D	6.50						
			D	7.00						
			D } U100	7.50		T _x				
			D	8.00						
			D	8.50						
			D } U100	9.00						
			D	9.50						
89.61	10.00		D	10.00						

Ground water

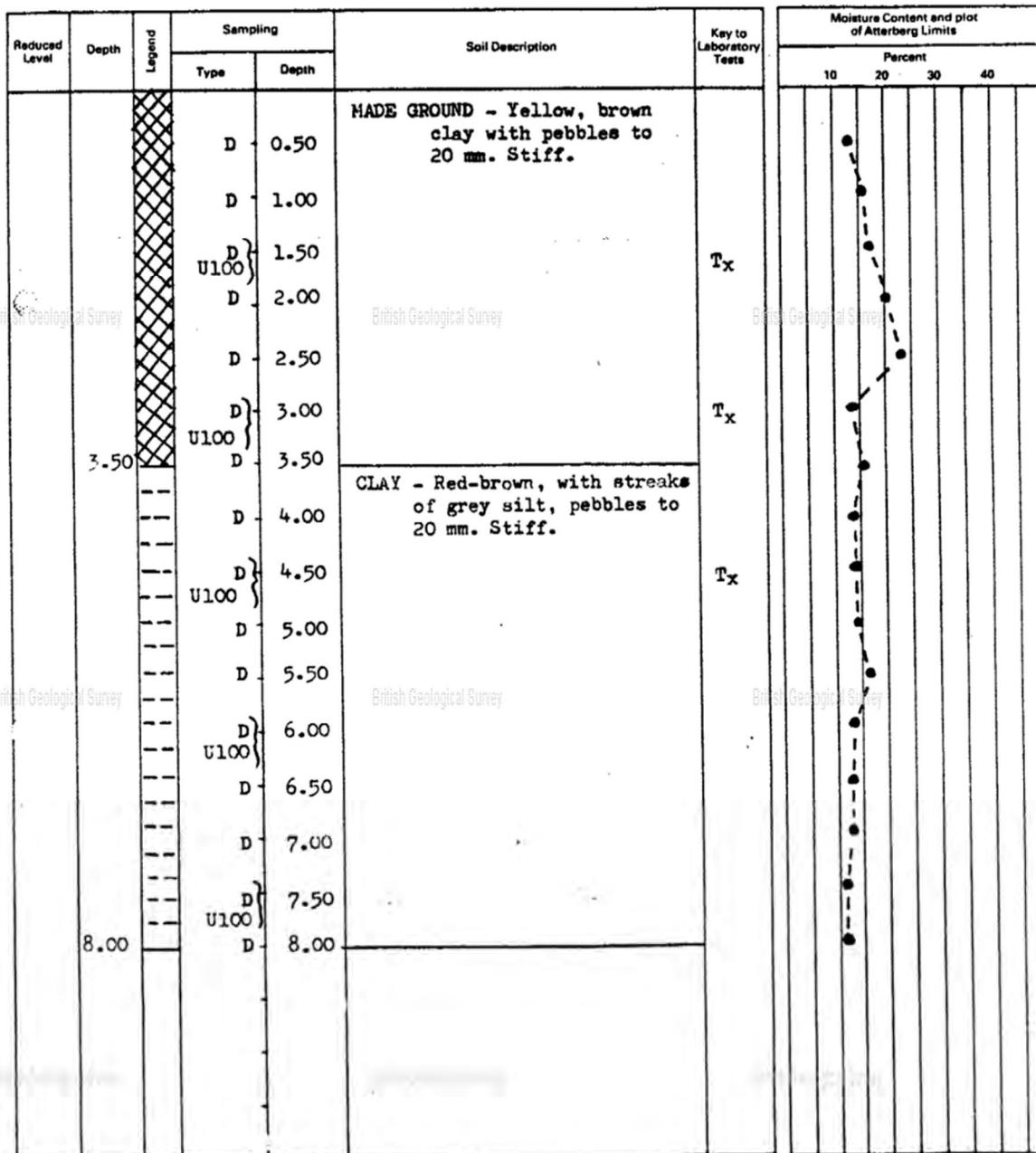
Encountered at Standing level	Nil		
Quantity			

SHEET 1 OF 1
SHEET No.

SJ35NW366(BGS) – BH3

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT**LOCATION:** MINERS ROAD, LLAY.**GROUND LEVEL:****TYPE OF BORING:** PERCUSSION RIG.**SCALE OF LOG:** 1 : 50**BOREHOLE NO.:** 3
SJ 35 NW / 366**DIA OF CASING:** 154 mm.**DATE DRILLED:**

9th February ..

Ground water

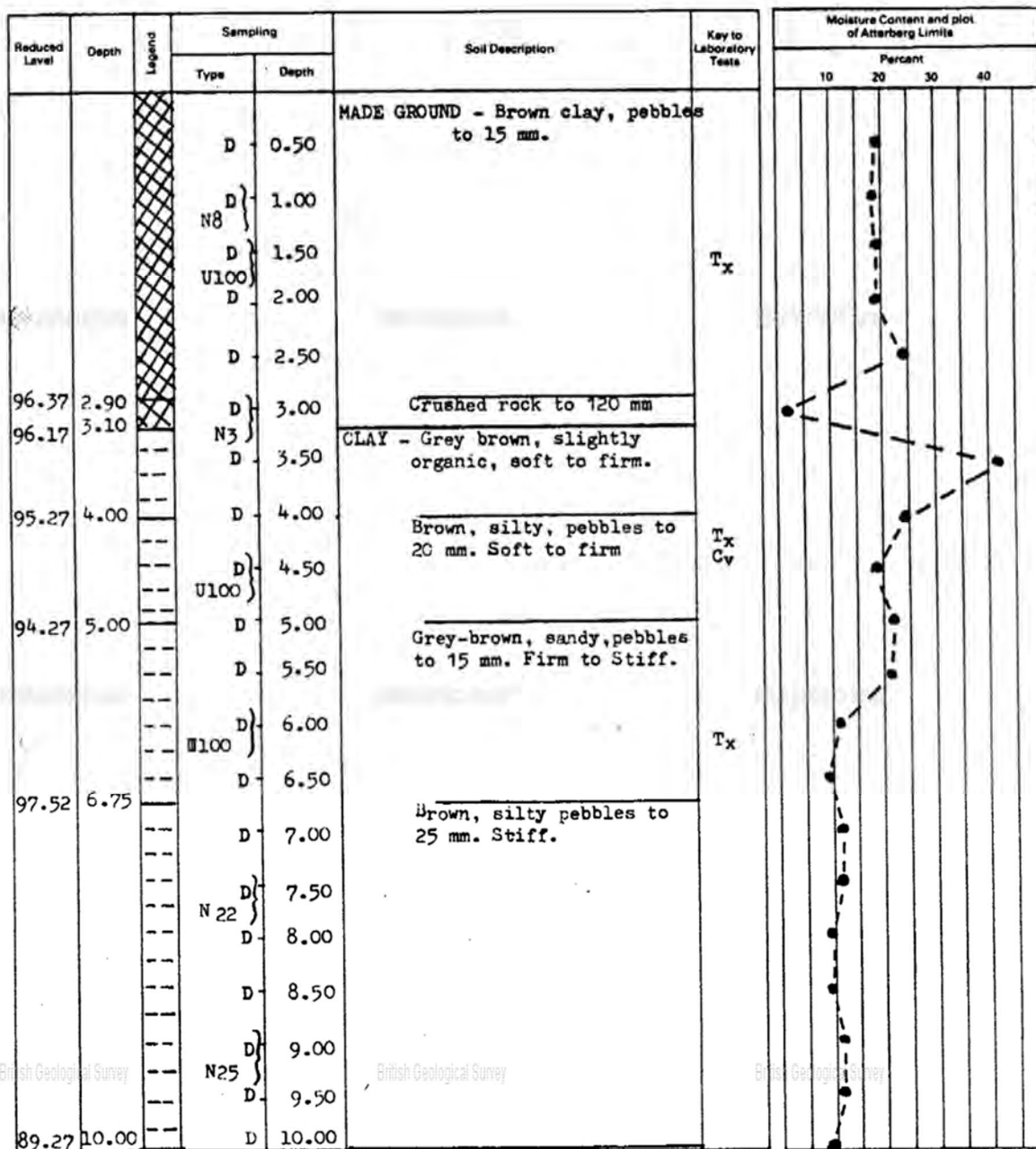
Encountered at Standing level	Nil		
Quantity			

SHEET 1 OF 1
SHEET No.

SJ35NW367(BGS) – BH4

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT**LOCATION:** MINERS ROAD, LLAY.**GROUND LEVEL:** 99.27**TYPE OF BORING:** PERCUSSION RIG.**SCALE OF LOG:** 1 : 50**BOREHOLE NO.:** 4

SJ35NW/367

DIA OF CASING: 154 mm.**DATE DRILLED:** 13th February**Ground water**

Encountered at Standing level	3.50		3.00
Quantity	2.25		2.20
	Trickle. BH dry at 4.00 metres		

SHEET 1 OF 1
SHEET No.

SJ35NW368(BGS) – BH5

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT**LOCATION:** MINERS ROAD, LLAY.**GROUND LEVEL:** 100.77**TYPE OF BORING:** PERCUSSION RIG.**SCALE OF LOG:** 1 : 50**BOREHOLE NO.:** 5
SJ 35 NW/368**DIA OF CASING:** 154 mm.**DATE DRILLED:** 13th February

Reduced Level	Depth	Legend	Sampling		Soil Description	Key to Laboratory Tests	Moisture Content and plot of Atterberg Limits			
			Type	Depth			Percent			
							10	20	30	40
			D	0.50	MADE GROUND - Silty strong, brown clay. Stiff.	Tx				
			D	1.00						
			D	1.50						
			U100	1.50						
			D	2.00						
			D	2.50						
			D	3.00						
			N14	3.00						
			D	3.50						
			D	4.00						
			D	4.50	CLAY - Dark brown silty with streaks of grey silt, pebbles to 20 mm and occasional ones to 100 mm. Stiff.					
95.57	4.70		U100	4.50						
			D	5.00						
			D	5.50						
			D	6.00						
			U100	6.00						
			D	6.50						
			D	7.00						
			N31	7.00						
93.97	7.30		D	7.50	SAND - Orange brown, fine to medium grained, silty, dense with depth.					
			D	8.00						
			D	8.50						
			D	9.00						
			N 70	9.00						
			D	9.50						
90.27	10.00		D	10.00						

Ground water

Encountered at Standing level	NIL		
Quantity			

SHEET 1 OF 1
SHEET No.

SJ35NW369(BGS) – BH6

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT**LOCATION:** MINERS ROAD, LLAY.**GROUND LEVEL:** 99.54**TYPE OF BORING:** PERCUSSION RIG.**SCALE OF LOG:** 1 : 50**BOREHOLE NO.:** 6

SJ35NW/369

DIA OF CASING: 154 mm.**DATE DRILLED:** 9/10th February

Reduced Level	Depth	Legend	Sampling		Soil Description	Key to Laboratory Tests	Moisture Content and plot of Atterberg Limits			
			Type	Depth			Percent			
98.04	1.50		D	0.50	MADE GROUND - Brown clay, silty a few pebbles to 15 mm. Soft top 150 mm, firm below					
			U100							
			D	1.00						
			D	1.50						
			U100							
			D	2.00						
			D	2.50						
			D	3.00						
			U100							
			D	3.50						
92.79	6.75		D	4.00	CLAY - Red-brown, streaks of grey silt, a few pebbles to 25 mm. Stiff.	T _x				
			D	4.50						
			U100							
			D	5.00						
			D	5.50						
			D	6.00						
			U100							
			D	6.50						
			D	7.00						
			D	7.50						
90.94	8.60		N26		SAND - Orange brown, fine grained small pieces of angular limestone. Medium dense.	T _x				
			D	8.00						
			D	8.50						
			D	9.00						
			D	9.50						
			N29							
			D	10.00						
			D	10.00						
			D	10.00						
			D	10.00						

Ground water

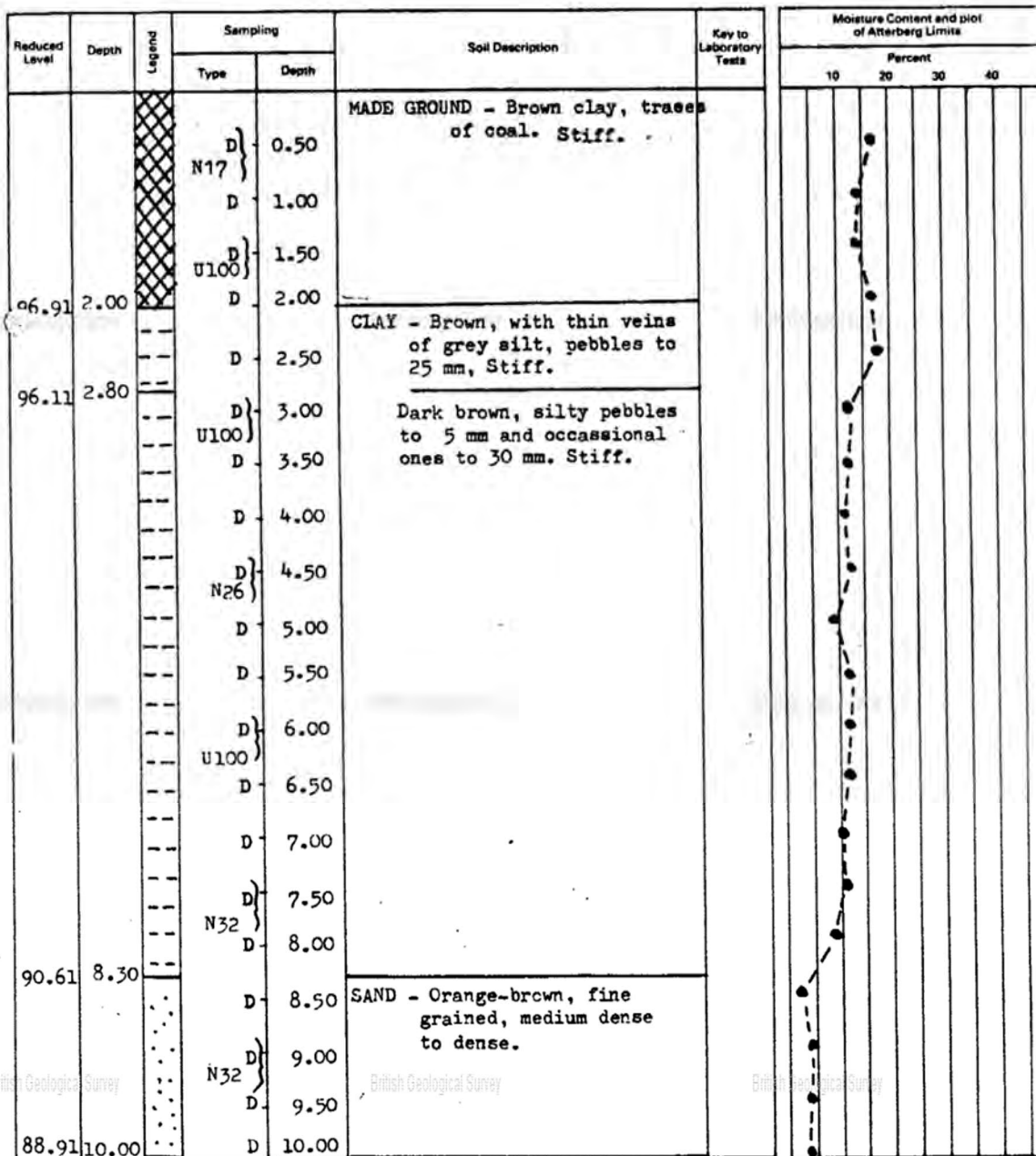
Encountered at Standing level	NIL		
Quantity			

SHEET 1 OF 1
SHEET No.

SJ35NW370(BGS) – BH7

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT**BOREHOLE NO.:** 7**LOCATION:** MINERS ROAD, LLAY.

SJ 35 NW 370

GROUND LEVEL: 98.91**DIA OF CASING:** 154 mm.**TYPE OF BORING:** PERCUSSION RIG.**DATE DRILLED:**
10/11th February**SCALE OF LOG:** 1 : 50**Ground water**

Encountered at Standing level	NIL		
Quantity			

SHEET 1 OF 1
SHEET No.

SJ35NW371(BGS) - BH8

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT**LOCATION:** MINERS ROAD, LLAY.**GROUND LEVEL:** 99.22**TYPE OF BORING:** PERCUSSION RIG.**SCALE OF LOG:** 1 : 50**BOREHOLE NO.:** {}

SJ35NW / 371

DIA OF CASING: 154 mm.**DATE DRILLED:**

12th February

Reduced Level	Depth	Legend	Sampling		Soil Description	Key to Laboratory Tests	Moisture Content and plot of Atterberg Limits			
			Type	Depth			Percent			
98.72	0.50		D	0.50	MADE GROUND - Wet, brown clay (300mm) on brown-grey clay	Tx				
			N27		CLAY - Red-brown with veins of grey silt a few pebbles to 30 mm. Stiff.					
			D	1.00						
			D	1.50						
			U100							
			D	2.00						
			D	2.50						
96.22	3.00		D	3.00						
			U100		Dark brown becoming grey with occasional boulders to 200 mm. Stiff.					
			D	3.50						
			D	4.00						
			D	4.50						
			U100							
			D	5.00						
			D	5.50						
			D	6.00						
			N31							
			D	6.50						
			D	7.00						
			D	7.50						
90.22	9.00		U100							
			D	8.00						
			D	8.50						
			D	9.00	Brown, sandy gravelly to 25 mm. Firm to stiff.					
			D	9.50						
89.22	10.00		D	10.00						

Ground water

Encountered at Standing level	NIL		
Quantity			

SHEET 1 OF 1
SHEET No.

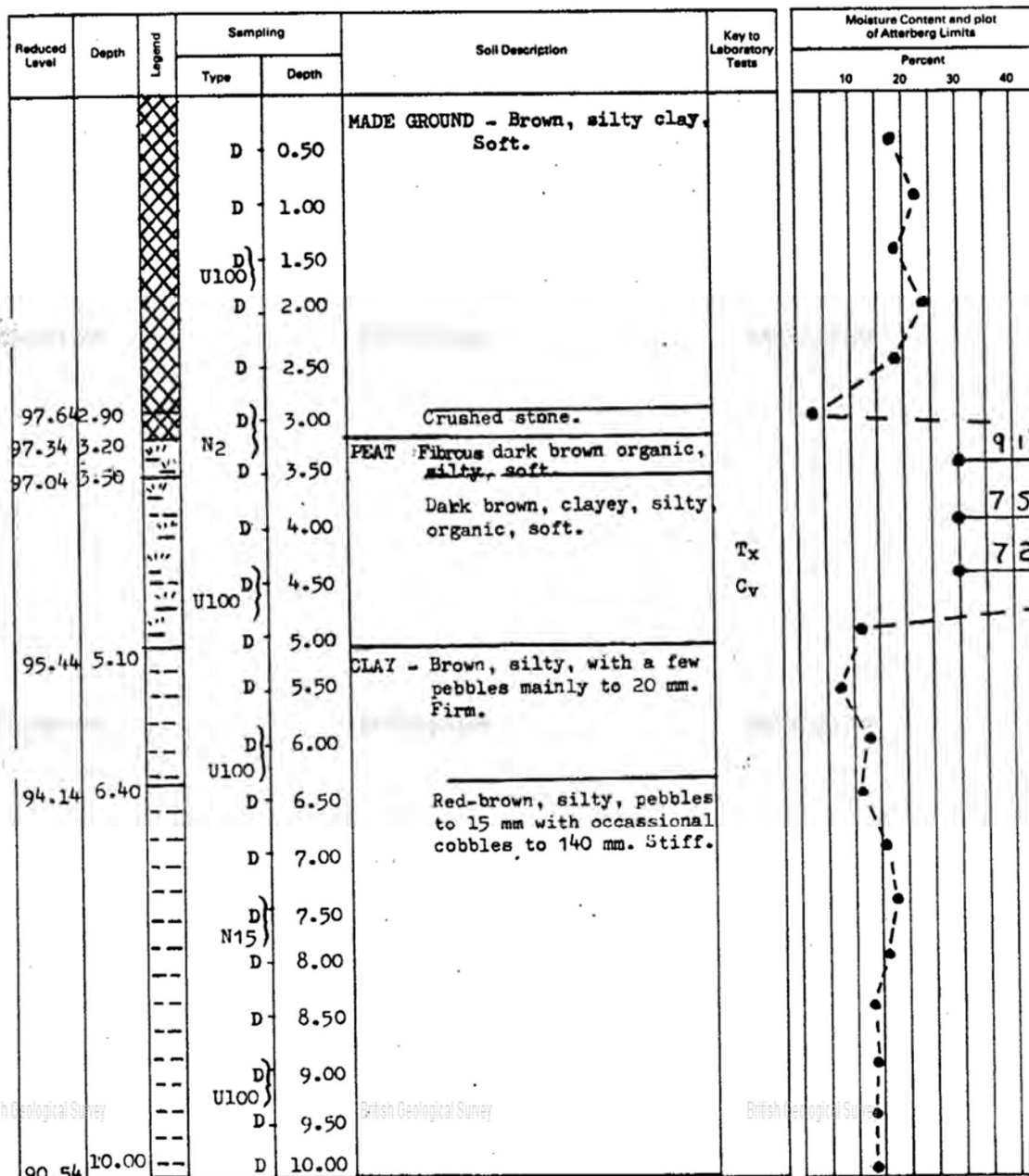
SJ35NW372(BGS) - BH9

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT**LOCATION:** MINERS ROAD, LLAY.**GROUND LEVEL:** 100.54**TYPE OF BORING:** PERCUSSION RIG.**SCALE OF LOG:** 1 : 50**BOREHOLE NO.:** 9

SJ35NW/372

DIA OF CASING: 154 mm.**DATE DRILLED:**

12th February

**Ground water**

Encountered at Standing level	2.90		
Quantity	Large rate of inflow		

SHEET 1 OF 1
SHEET No.

SJ35NW373(BGS) – BH10

PROJECT: PROPOSED INDUSTRIAL DEVELOPMENT**LOCATION:** MINERS ROAD, LLAY.**GROUND LEVEL:** 99.96**TYPE OF BORING:** PERCUSSION RIG.**SCALE OF LOG:** 1: 50**BOREHOLE NO.:** 1 (1)

SJ35NW/373

DIA OF CASING: 154 mm.**DATE DRILLED:** 10th February

Reduced Level	Depth	Legend	Sampling		Soil Description	Key to Laboratory Tests	Moisture Content and plot of Atterberg Limits			
			Type	Depth			Percent			
							10	20	30	40
			D	0.50	MADE GROUND - Brown, silty, sandy clay, firm					
			D	1.00						
			D	1.50						
			U100	1.50		T _x				
			D	2.00						
97.96	2.00		D	2.50	Dark brown clay, silty, firm.					
			D	3.00						
			U100	3.00		T _x				
			D	3.50						
			D	4.00						
95.56	4.40		D	4.50	Crushed stone.					
95.26	4.70		N2	4.50						
			D	5.00	PEAT - Black fibrous, organic very soft.					
94.56	5.40		D	5.50	SILT - dark brown, clay, very soft.	T _x				
		xx	D	6.00		C _v				
		xx	U100	6.00						
93.46	6.50		D	6.50	CLAY - Brown, silty, some pebbles to 20 mm. Firm					
			D	7.00						
			D	7.50						
			U100	7.50		T _x				
			D	8.00						
			D	8.50						
			D	9.00						
90.46	9.50		U100	9.00						
			D	9.50	Dark brown, silty, a few pebbles to 30 mm. Stiff.					
			D	10.00						

Ground water

Encountered at Standing level	4.40		
Quantity	Large rate of inflow.		

SHEET 1 OF 2
SHEET No.

