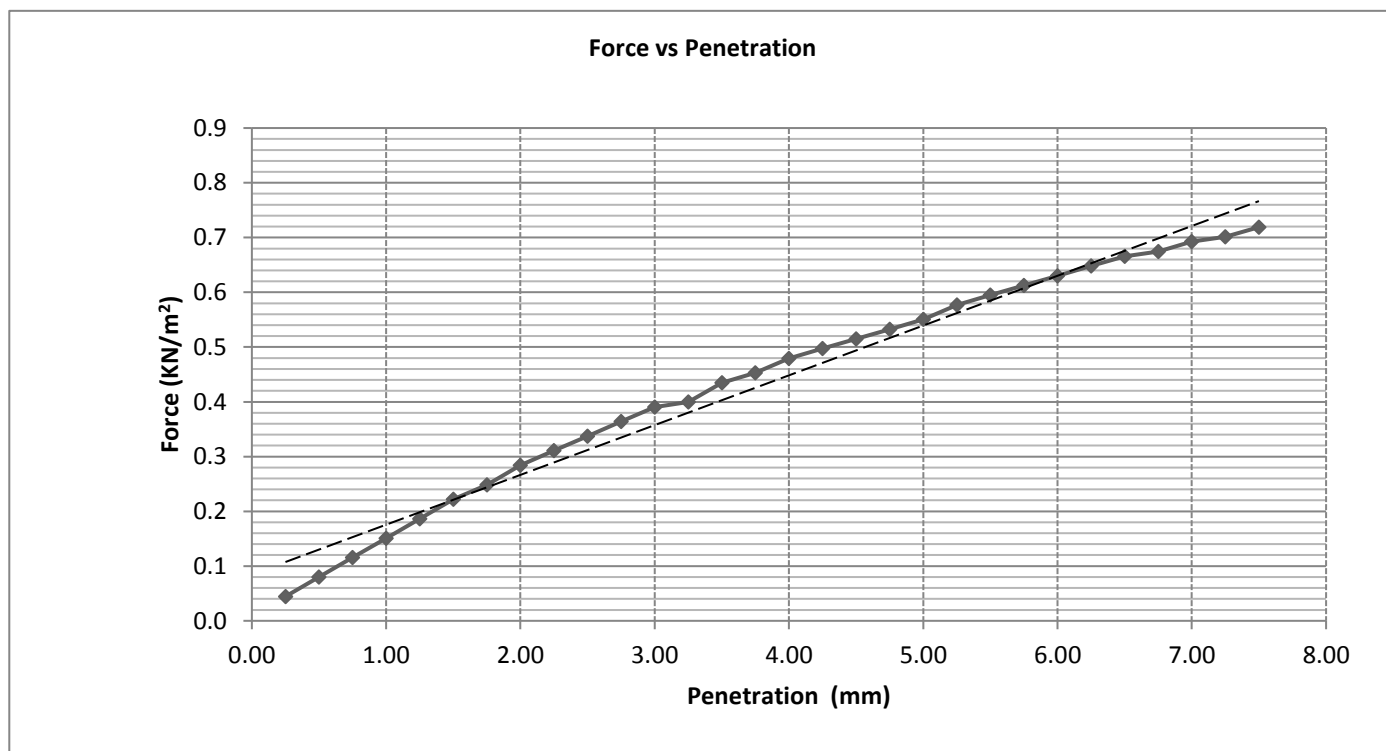


Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR05	Lab. Reference:	G762.1.5	Date Tested:	9.12.15
Sample Location:	5			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	0.3	0.6
Standard Force (kN)	13.20	20.00
CBR (%)	2.6	2.8

CBR Value (%)	2.8
Moisture Content (%)	7.5

Remarks:

Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.0	5
0.50	0.1	9
0.75	0.1	13
1.00	0.2	17
1.25	0.2	21
1.50	0.2	25
1.75	0.2	28
2.00	0.3	32
2.25	0.3	35
2.50	0.3	38
2.75	0.4	41
3.00	0.4	44
3.25	0.4	45
3.50	0.4	49
3.75	0.5	51
4.00	0.5	54
4.25	0.5	56
4.50	0.5	58
4.75	0.5	60
5.00	0.6	62
5.25	0.6	65
5.50	0.6	67
5.75	0.6	69
6.00	0.6	71
6.25	0.6	73
6.50	0.7	75
6.75	0.7	76
7.00	0.7	78
7.25	0.7	79
7.50	0.7	81

Load Ring No.	10kN	(use drop down menu)
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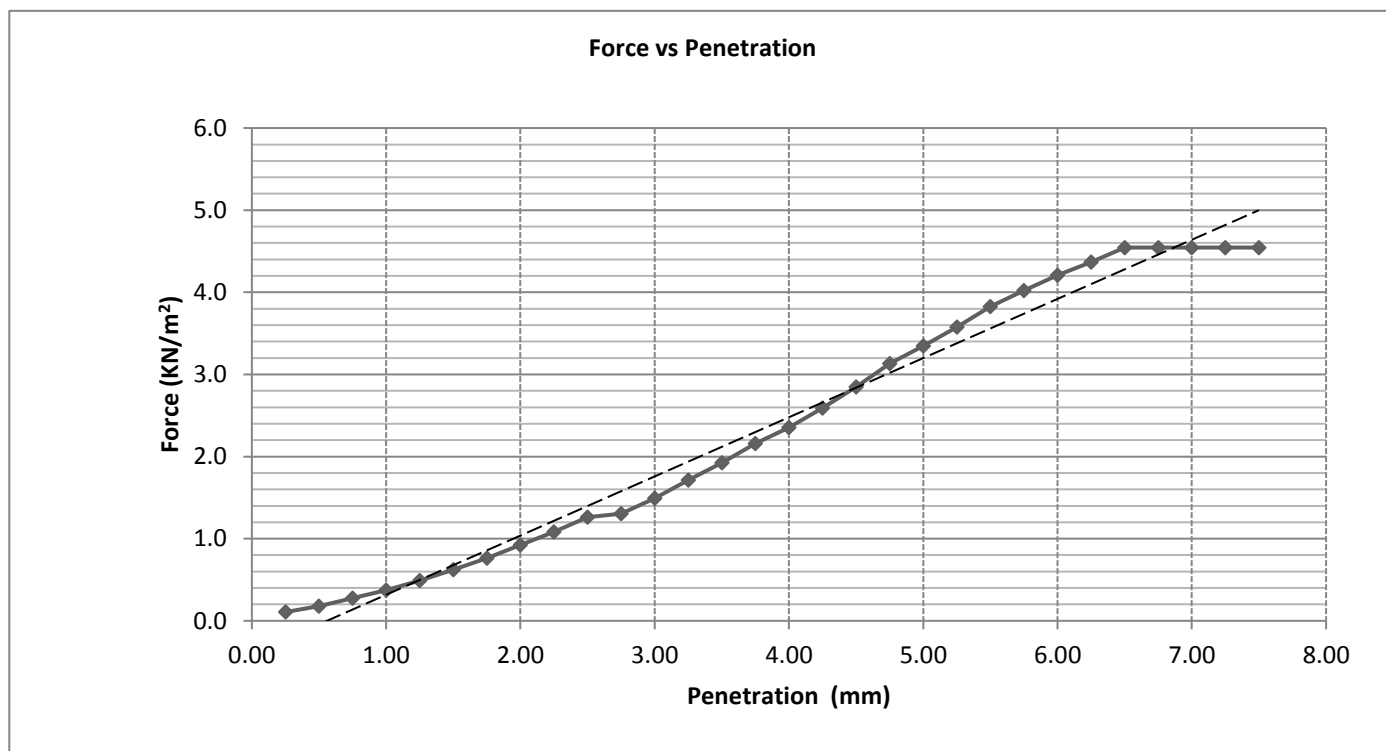
Load Ring Factor.	0.0088763
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Moisture Content	7.5
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR06	Lab. Reference:	G762.1.6	Date Tested:	9.12.15
Sample Location:	5			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	1.3	3.3
Standard Force (kN)	13.20	20.00
CBR (%)	9.5	17

CBR Value (%)	17
Moisture Content (%)	16

Remarks:	Test stopped due to vehicle lifting.
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Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.1	12
0.50	0.2	20
0.75	0.3	31
1.00	0.4	42
1.25	0.5	55
1.50	0.6	70
1.75	0.8	86
2.00	0.9	104
2.25	1.1	122
2.50	1.3	142
2.75	1.3	147
3.00	1.5	168
3.25	1.7	193
3.50	1.9	217
3.75	2.2	243
4.00	2.4	265
4.25	2.6	292
4.50	2.8	321
4.75	3.1	353
5.00	3.3	377
5.25	3.6	403
5.50	3.8	431
5.75	4.0	453
6.00	4.2	474
6.25	4.4	492
6.50	4.5	512
6.75	4.5	512
7.00	4.5	512
7.25	4.5	512
7.50	4.5	512

Load Ring No.	10kN	(use drop down menu)
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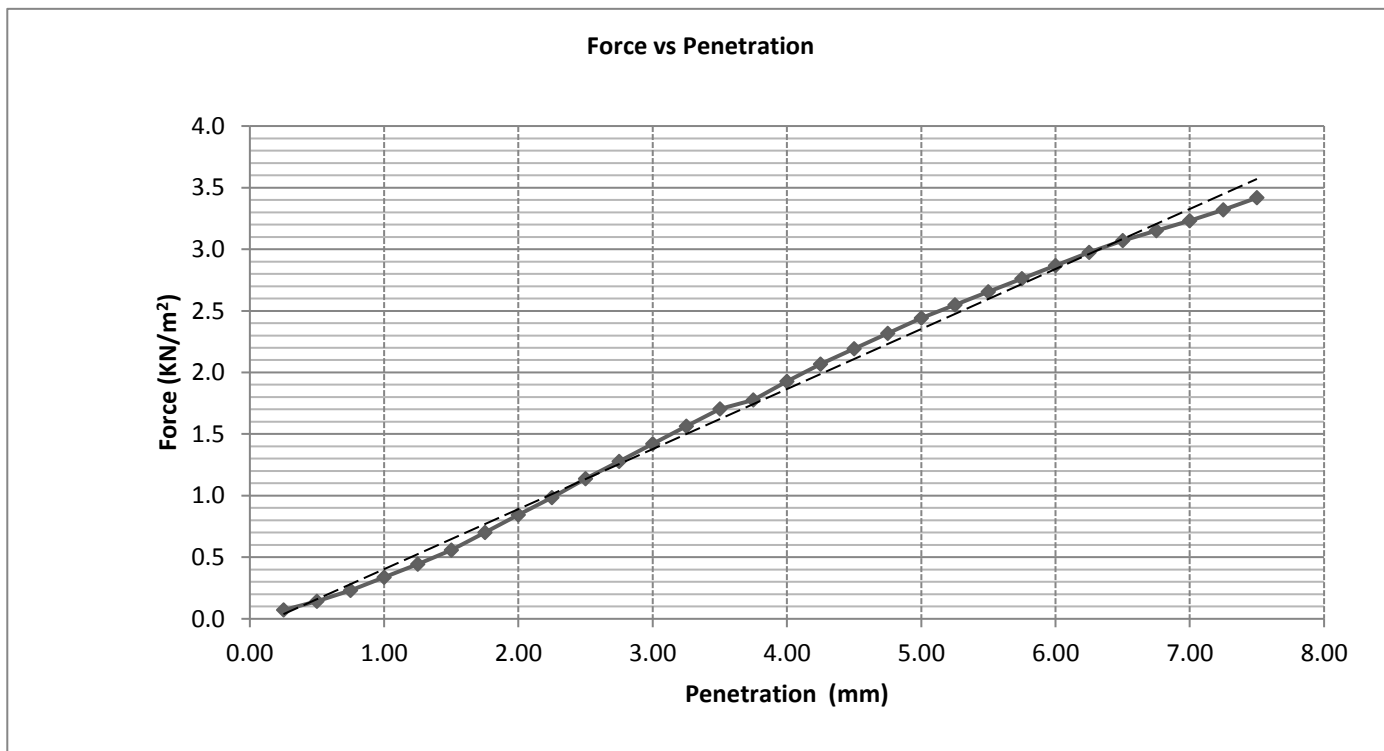
Load Ring Factor.	0.0088763
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Moisture Content	16
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR07	Lab. Reference:	G762.1.7	Date Tested:	9.12.15
Sample Location:	7			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	1.1	2.4
Standard Force (kN)	13.20	20.00
CBR (%)	8.6	12

CBR Value (%)	12
Moisture Content (%)	20

Remarks:

Signed: **G.Morris**
 Position: Laboratory Manager
 Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.1	8
0.50	0.1	16
0.75	0.2	26
1.00	0.3	38
1.25	0.4	50
1.50	0.6	63
1.75	0.7	79
2.00	0.8	95
2.25	1.0	111
2.50	1.1	128
2.75	1.3	144
3.00	1.4	160
3.25	1.6	176
3.50	1.7	192
3.75	1.8	200
4.00	1.9	217
4.25	2.1	233
4.50	2.2	247
4.75	2.3	261
5.00	2.4	275
5.25	2.5	287
5.50	2.7	299
5.75	2.8	311
6.00	2.9	323
6.25	3.0	335
6.50	3.1	346
6.75	3.2	355
7.00	3.2	364
7.25	3.3	374
7.50	3.4	385

Load Ring No.	10kN	(use drop down menu)
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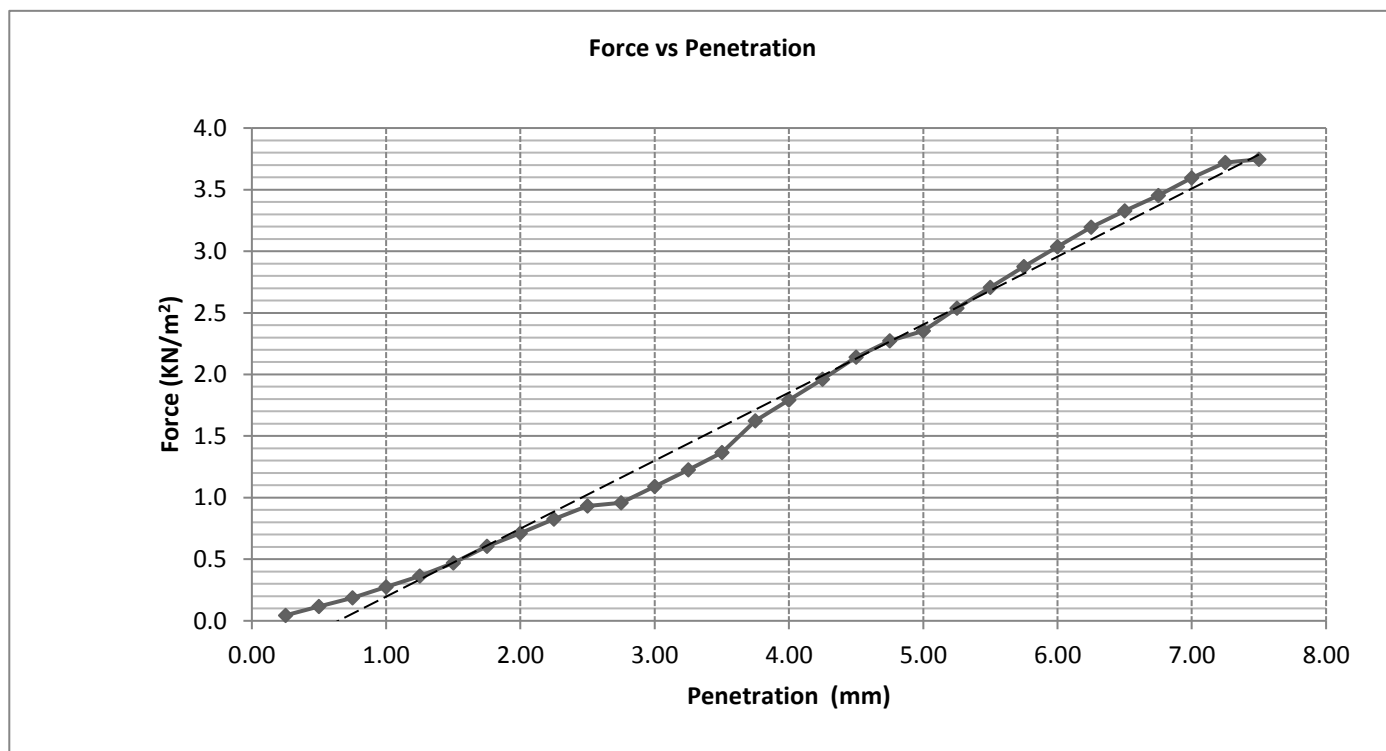
Load Ring Factor.	0.0088763
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Moisture Content	20
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR08	Lab. Reference:	G762.1.8	Date Tested:	9.12.15
Sample Location:	8			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	0.9	2.4
Standard Force (kN)	13.20	20.00
CBR (%)	7.1	12

CBR Value (%)	12
Moisture Content (%)	15

Remarks:

Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.0	5
0.50	0.1	13
0.75	0.2	21
1.00	0.3	31
1.25	0.4	41
1.50	0.5	53
1.75	0.6	68
2.00	0.7	80
2.25	0.8	93
2.50	0.9	105
2.75	1.0	108
3.00	1.1	123
3.25	1.2	138
3.50	1.4	154
3.75	1.6	183
4.00	1.8	202
4.25	2.0	221
4.50	2.1	241
4.75	2.3	256
5.00	2.4	265
5.25	2.5	286
5.50	2.7	305
5.75	2.9	324
6.00	3.0	342
6.25	3.2	360
6.50	3.3	375
6.75	3.5	389
7.00	3.6	405
7.25	3.7	419
7.50	3.7	422

Load Ring No.	10kN	(use drop down menu)
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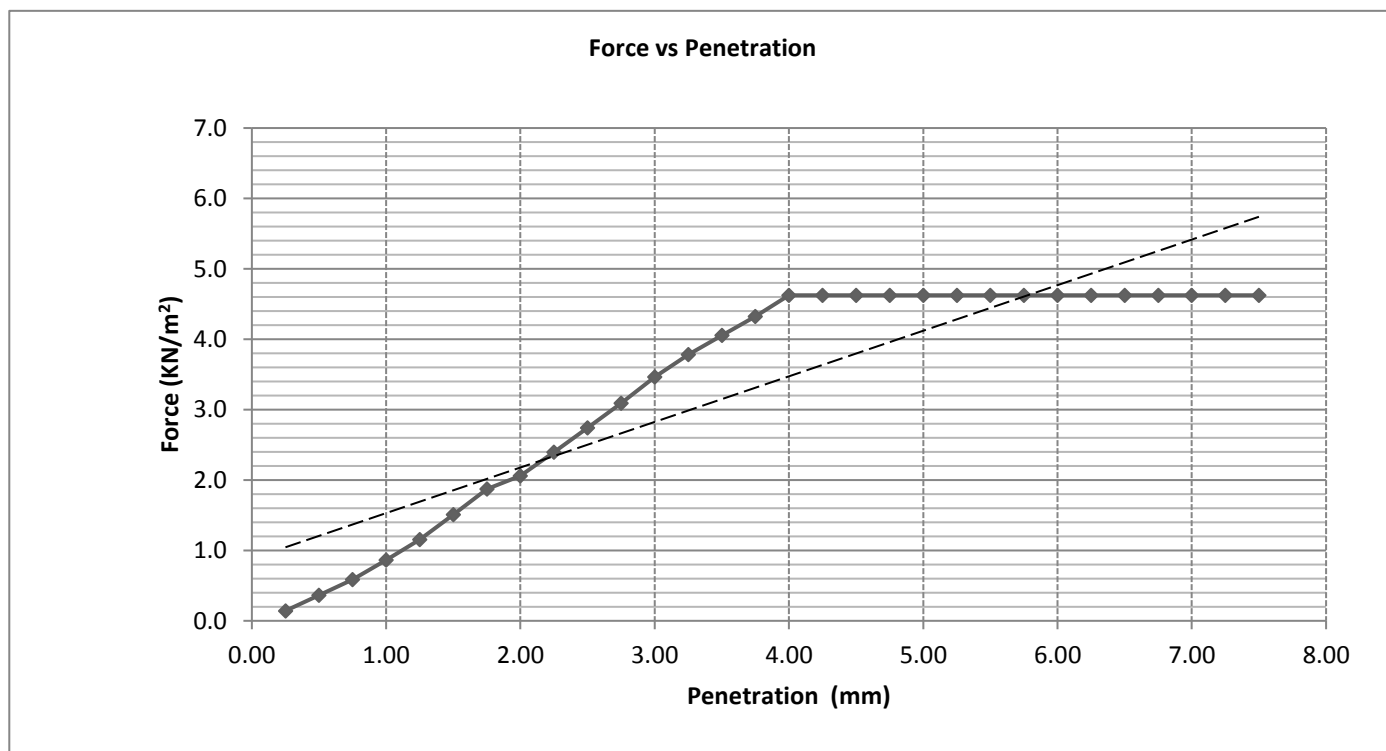
Load Ring Factor.	0.0088763
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Moisture Content	15
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR09	Lab. Reference:	G762.1.9	Date Tested:	9.12.15
Sample Location:	9			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	2.7	4.6
Standard Force (kN)	13.20	20.00
CBR (%)	21	23

CBR Value (%)	23
Moisture Content (%)	18

Remarks:	Test stopped due to vehicle lifting.
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Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.1	16
0.50	0.4	41
0.75	0.6	66
1.00	0.9	97
1.25	1.2	130
1.50	1.5	170
1.75	1.9	211
2.00	2.1	232
2.25	2.4	270
2.50	2.7	309
2.75	3.1	348
3.00	3.5	390
3.25	3.8	426
3.50	4.1	457
3.75	4.3	487
4.00	4.6	521
4.25	4.6	521
4.50	4.6	521
4.75	4.6	521
5.00	4.6	521
5.25	4.6	521
5.50	4.6	521
5.75	4.6	521
6.00	4.6	521
6.25	4.6	521
6.50	4.6	521
6.75	4.6	521
7.00	4.6	521
7.25	4.6	521
7.50	4.6	521

Load Ring No.	10kN	(use drop down menu)
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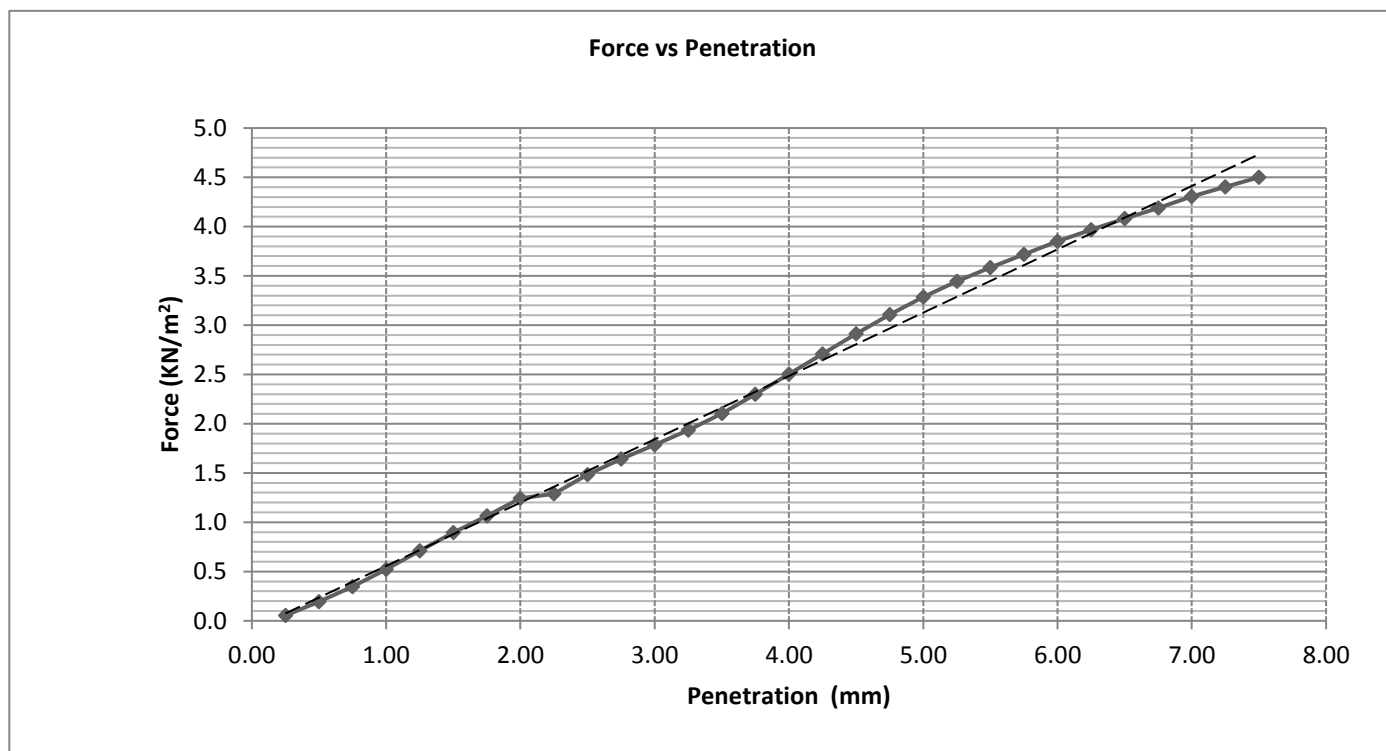
Load Ring Factor.	0.0088763
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Moisture Content	18
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR10	Lab. Reference:	G762.1.10	Date Tested:	9.12.15
Sample Location:	10			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	1.5	3.3
Standard Force (kN)	13.20	20.00
CBR (%)	11	16

CBR Value (%)	16
Moisture Content (%)	13

Remarks:

Signed: **G.Morris**
 Position: Laboratory Manager
 Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.1	6
0.50	0.2	22
0.75	0.3	39
1.00	0.5	59
1.25	0.7	80
1.50	0.9	101
1.75	1.1	120
2.00	1.2	140
2.25	1.3	145
2.50	1.5	167
2.75	1.6	185
3.00	1.8	201
3.25	1.9	218
3.50	2.1	237
3.75	2.3	259
4.00	2.5	282
4.25	2.7	305
4.50	2.9	328
4.75	3.1	350
5.00	3.3	370
5.25	3.4	388
5.50	3.6	404
5.75	3.7	419
6.00	3.9	434
6.25	4.0	447
6.50	4.1	460
6.75	4.2	472
7.00	4.3	485
7.25	4.4	496
7.50	4.5	507

Load Ring No.	10kN	(use drop down menu)
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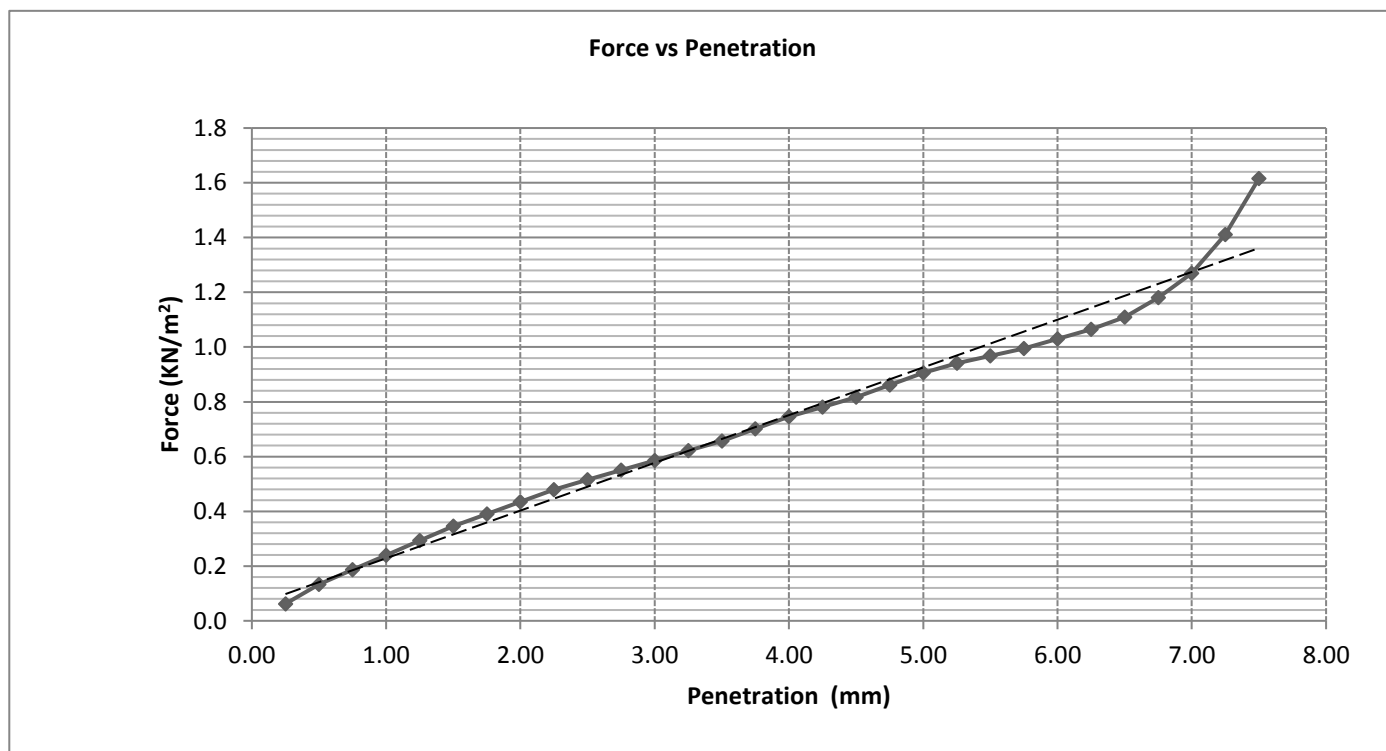
Load Ring Factor.	0.0088763
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Moisture Content	13
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR11	Lab. Reference:	G762.1.11	Date Tested:	9.12.15
Sample Location:	11			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ	Source:	In Situ		
Depth Below Ground Level:	0.3m	Reaction Load:	4 x 4 Vehicle		



Peneration (mm)	2.50	5.00
Force (kN)	0.5	0.9
Standard Force (kN)	13.20	20.00
CBR (%)	3.9	4.5

CBR Value (%)	4.5
Moisture Content (%)	15

Remarks:

Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.1	7
0.50	0.1	15
0.75	0.2	21
1.00	0.2	27
1.25	0.3	33
1.50	0.3	39
1.75	0.4	44
2.00	0.4	49
2.25	0.5	54
2.50	0.5	58
2.75	0.6	62
3.00	0.6	66
3.25	0.6	70
3.50	0.7	74
3.75	0.7	79
4.00	0.7	84
4.25	0.8	88
4.50	0.8	92
4.75	0.9	97
5.00	0.9	102
5.25	0.9	106
5.50	1.0	109
5.75	1.0	112
6.00	1.0	116
6.25	1.1	120
6.50	1.1	125
6.75	1.2	133
7.00	1.3	143
7.25	1.4	159
7.50	1.6	182

Load Ring No.	10kN	(use drop down menu)
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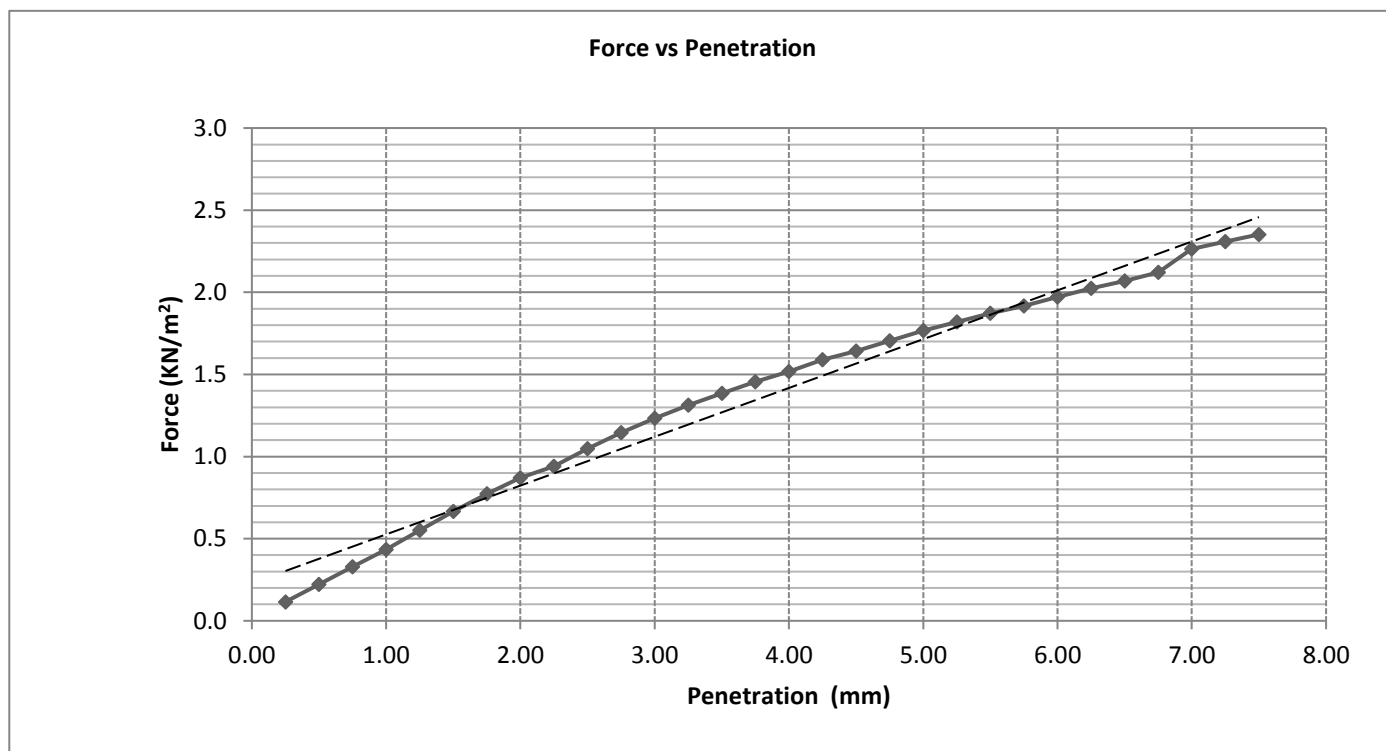
Load Ring Factor.	0.0088763
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Moisture Content	15
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Determination of In Situ CBR to BS 1377: Part 9: 1990: Cl.4.3

Client Name:	Neath Port Talbot County Borough Council		
Client Address:	Civic Centre, Port Talbot, SA13 1PJ		
Contract Name:	Burrows Yard, Opposite Water Street, port Talbot	Contract No.:	G762

Site Reference:	QCBR12	Lab. Reference:	G762.1.12	Date Tested:	9.12.15
Sample Location:	12			Date Received:	9.12.15
Material Description:	Dark grey sandy gravel				
Supplier:	In Situ		Source:	In Situ	
Depth Below Ground Level:	0.3m		Reaction Load:	4 x 4 Vehicle	



Peneration (mm)	2.50	5.00
Force (kN)	1.0	1.8
Standard Force (kN)	13.20	20.00
CBR (%)	7.9	8.8

CBR Value (%)	8.8
Moisture Content (%)	11

Remarks:

Signed: **G.Morris**
Position: Laboratory Manager
Dated: 29 April 2016

Penetration (mm)	Force (kN)	Force (divs)
0.25	0.1	13
0.50	0.2	25
0.75	0.3	37
1.00	0.4	49
1.25	0.6	62
1.50	0.7	75
1.75	0.8	87
2.00	0.9	98
2.25	0.9	106
2.50	1.0	118
2.75	1.1	129
3.00	1.2	139
3.25	1.3	148
3.50	1.4	156
3.75	1.5	164
4.00	1.5	171
4.25	1.6	179
4.50	1.6	185
4.75	1.7	192
5.00	1.8	199
5.25	1.8	205
5.50	1.9	211
5.75	1.9	216
6.00	2.0	222
6.25	2.0	228
6.50	2.1	233
6.75	2.1	239
7.00	2.3	255
7.25	2.3	260
7.50	2.4	265

Load Ring No.	10kN
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Load Ring Factor.	0.0088763
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Moisture Content	11
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APPENDIX V – COAL AUTHORITY REPORT

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0345 762 6848 DX 716176 MANSFIELD 5

**GROUNDSURE LIMITED
SOVEREIGN HOUSE
CHURCH STREET
BRIGHTON
BN1 3UJ**

Our reference: **51000896384001**
Your reference: **ESP-2129828; PO:**
Date of your enquiry: **01 June 2015**
Date we received your enquiry: **01 June 2015**
Date of issue: **01 June 2015**

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

Non-Residential Coal Authority Mining Report

275966, 189794, NEATH PORT TALBOT,

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	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

According to the records in our possession, the property is not within the zone of likely physical influence on the surface from past underground 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 or otherwise work coal using underground methods.

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

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

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 subject property, or any property within 50 metres, since 31st October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works 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.

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

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. 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 applicable at the time the report was produced.

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Location map



Approximate position of property

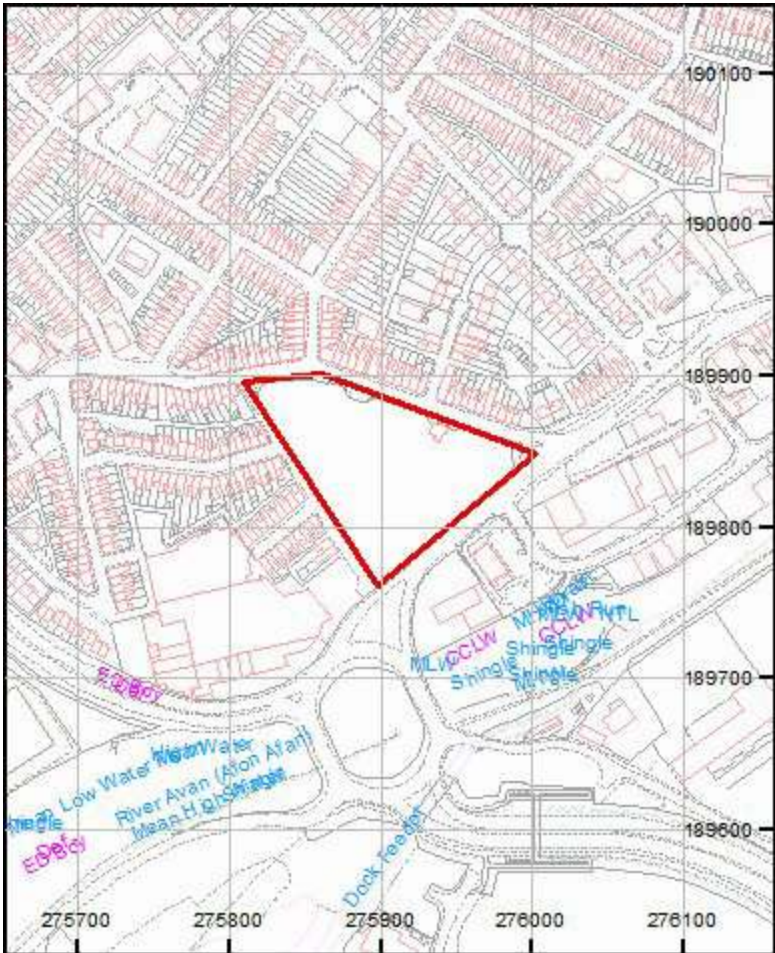


Enquiry boundary

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Key

Approximate position of enquiry boundary shown



APPENDIX VII – LAND GAS AND GROUNDWATER MONITORING RECORDS

Page 1 of 1

Installation Date: 03/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
6.47	50	Standpipe	1.0 - 2.9	1.90
	19	Standpipe	4.0 - 8.0	4.00

[illegible]

Page 1 of 1

Project Name:	Burrows Yard
Project No.:	G762
BH/TP No.:	QBH02
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 11/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
6	50	Standpipe	1.0 - 2.0	1.00
	19	Standpipe	3.5 - 6.5	3.00

[illegible]

Page 1 of 1

Installation Date: 07/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (mbgl)
6.28	50	Standpipe	1.00 - 2.00	1.00
	19	Standpipe	3.1 - 6.50	3.40

[illegible]

Page 1 of 1

Installation Date: 08/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
6.10	50	Standpipe	1.00 - 2.00	1.00
	19	Standpipe	3.50 - 7.70	4.20

[illegible]

Page 1 of 1

Project Name:	Burrows Yard
Project No.:	G762
BH/TP No.:	QBH05
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 10/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
5.94	50	Standpipe	1.0 - 2.0	1.00
	19	Standpipe	3.0 - 6.6	3.60

[illegible]

Page 1 of 1

Project Name:	Burrows Yard
Project No.:	G762
BH/TP No.:	QBH06
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 06/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
6.06	50	Standpipe	0.5 - 2.0	1.50
	19	Standpipe	2.5 - 6.5	4.00

[illegible]

Page 1 of 1

Project Name:	Burrows Yard
Project No.:	G762
BH/TP No.:	QTP02A
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 08/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
6.38	50	Standpipe	1.00 - 2.40	01-Jan

[illegible]

Page 1 of 1

Project Name:	Burrows Yard
Project No.:	G762
BH/TP No.:	QTT02
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 14/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
5.83	50	Standpipe	2.00 - 4.00	02-Jan

[illegible]

Page 1 of 1

Project Name:	B urrows Yard
Project No.:	G762
BH/TP No.:	QWS02
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 08/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
6.48	50	Standpipe	0.90 - 2.00	1.10

[illegible]

Page 1 of 1

Project Name:	Burrows Yard
Project No.:	G762
BH/TP No.:	QWS06
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 03/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
6.33	50	Standpipe	0.25 - 1.75	01-Jan

[illegible]

LANDGAS & GROUNDWATER MONITORING RECORD SHEET

Page 1 of 1

Project Name:	Burrows Yard
Project No.:	G762
BH/TP No.:	QWS07
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 07/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (mbgl)
5.83	50	Standpipe	0.25 - 1.25	01-Jan

[illegible]

Page 1 of 1

Project Name:	Burrows Yard
Project No.:	G762
BH/TP No.:	QWS10
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 03/12/2016				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
6.1	50	Standpipe	1.0 - 1.90	0.90

[illegible]

Page 1 of 1

Project Name:	Burrows Yard
Project No.:	G762
BH/TP No.:	QWS12
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 03/12/2016				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
6.46	50	Standpipe	0.50 - 3.00	2.50

[illegible]

Page 1 of 1

Project Name:	B urrows Yard
Project No.:	G762
BH/TP No.:	QWS14N
Instruments Used:	Water Dip Meter Probe, GA2000 Gas Analyser

Installation Date: 04/12/2015				
GL (mAOD)	Pipe	Type	Installation Depth (mbgl)	Response Zone (m)
5.83	50	Standpipe	0.20 - 1.20	1.00

[illegible]

APPENDIX VIII – GEOTECHNICAL LABORATORY TEST RESULTS



Contract Number: 29661

Client's Reference: **G762**

Report Date: **10-02-2016**

Client **Dawnus Construction Limited C/O Quantum Geotechnic**
Ty Berwig
Bynea
Llanelli.
Carmarthenshire.
SA14 9ST

Contract Title: **Burrows Yard**
For the attention of: **Gareth Morris**

Date Received: **20-01-2016**
Date Commenced: **20-01-2016**
Date Completed: **10-02-2016**

Test Description	Qty
Dry Den/MC (2.5kg Rammer Method 1 Litre Mould) 1377 : 1990 Part 4 : 3.3 - * UKAS	5
One-dimensional Consolidation 75mm or 50mm diameter specimens (5 days) 1377 : 1990 Part 5 : 3 - * UKAS	5
Quick Undrained Triaxial Compression test - single specimen at one confining pressure (100mm or 38mm diameter) 1377 : 1990 Part 7 : 8 - * UKAS	3
Disposal of Samples on Project	1

Notes: Observations and Interpretations are outside the UKAS Accreditation
* - denotes test included in laboratory scope of accreditation
- denotes test carried out by approved contractor
@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Approved Signatories:

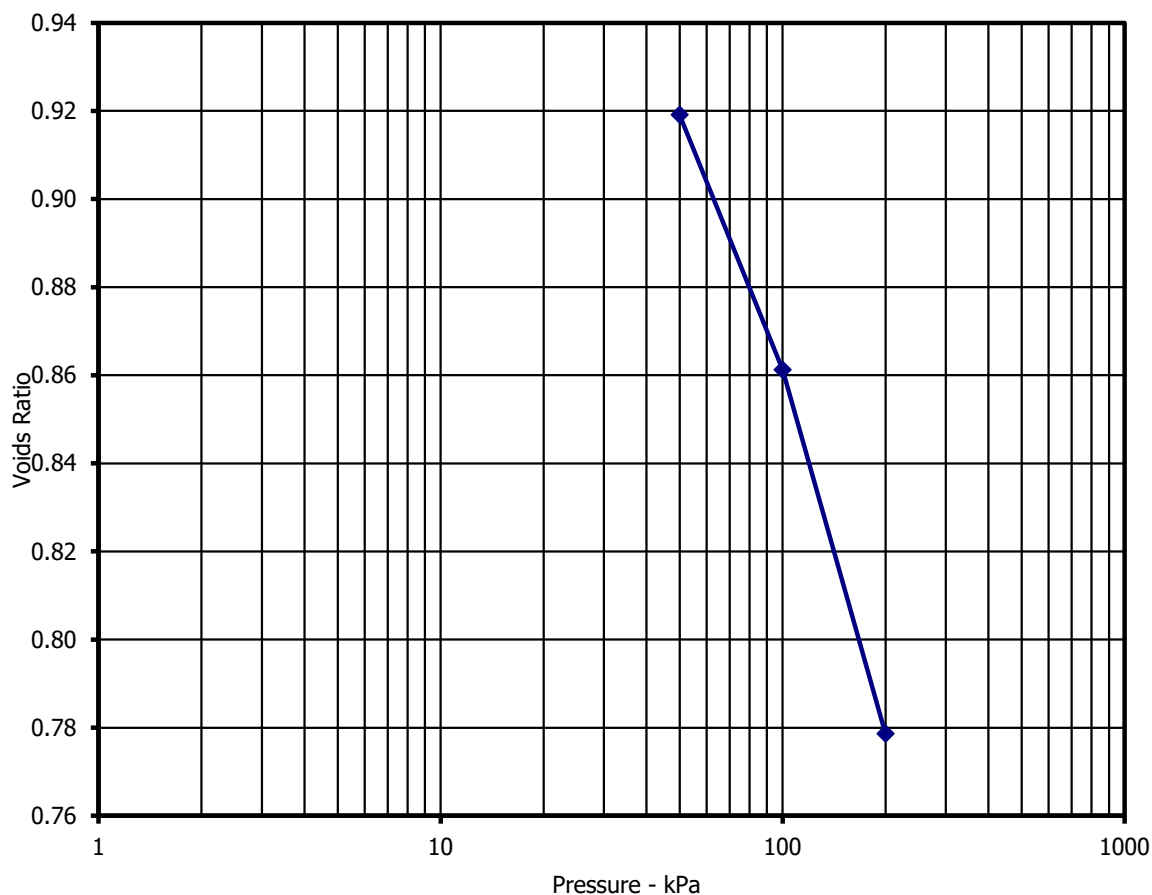
Alex Wynn (Associate Director) - Benjamin Sharp (Contracts Manager) - Emma Sharp (Office Manager)
Paul Evans (Quality/Technical Manager) - Vaughan Edwards (Managing Director)

Test Report: ONE DIMENSIONAL CONSOLIDATION

BS 1377 : Part 5 : 3 : 1990

Client ref: **G762**
 Location: **Burrows Yard**
 Contract Number: **29661-**
 Hole/Sample Number: **QBH01**
 Depth (m) : **4.00-4.50**
 Sample Type: **U**

Initial Conditions		Pressure Range	Mv	Cv	Method of time fitting used
Moisture Content (%):	38	kPa	m2/MN	m2/yr	Cv Calculated using t90
Bulk Density (Mg/m3):	1.85	0 - 50	0.67	5.1	Nominal Laboratory Temperature
Dry Density (Mg/m3):	1.33	50 - 100	0.6	3.7	20°C
Voids Ratio:	0.9860	100 - 200	0.44	3.9	Location of specimen with sample
Degree of saturation:	103.1				Top
Height (mm):	20				Remarks:
Diameter (mm)	50				
Particle Density (Mg/m3)	2.65				
Assumed					



GSTL
 GEO Site & Testing Services Limited

B. Shep

Checked by

Date approved:

D.P. Gons

Approved by

09/02/16

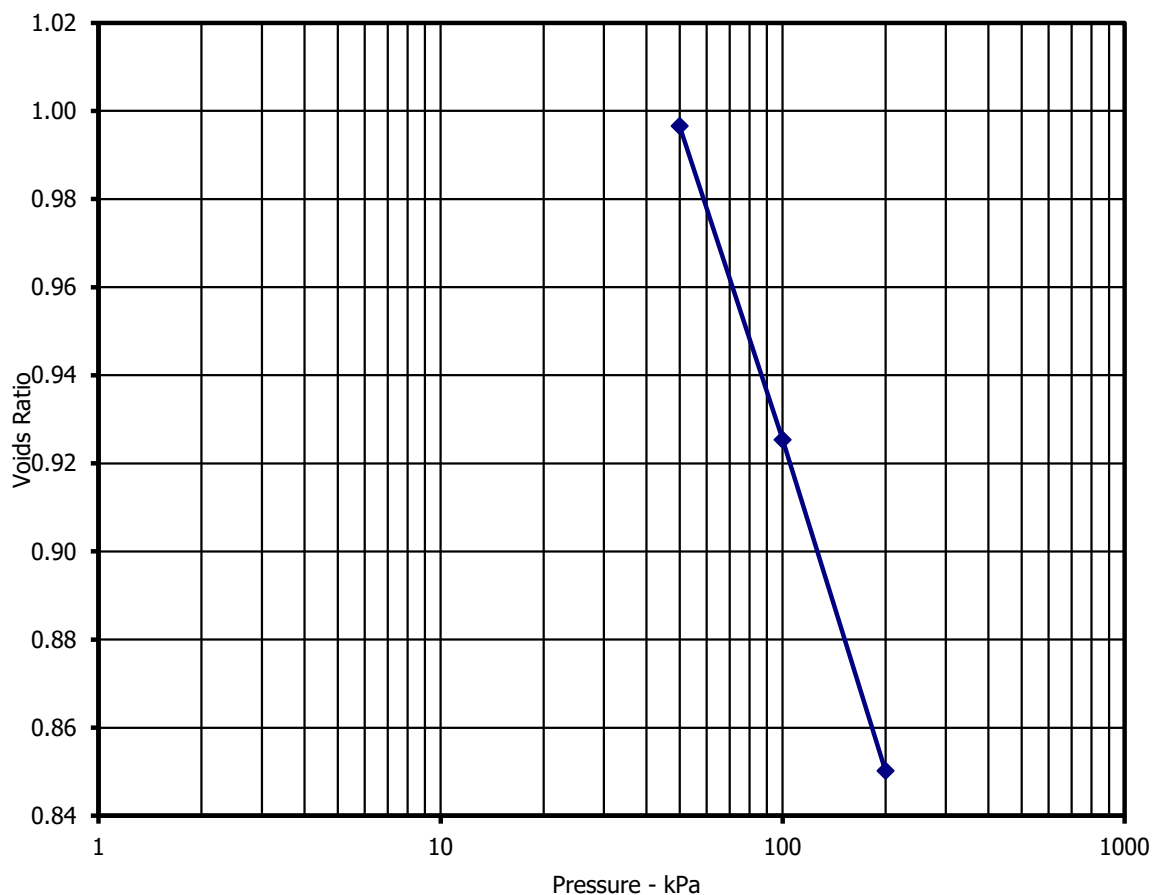


Test Report: ONE DIMENSIONAL CONSOLIDATION

BS 1377 : Part 5 : 3 : 1990

Client ref: **G762**
 Location: **Burrows Yard**
 Contract Number: **29661-**
 Hole/Sample Number: **QBH02**
 Depth (m) : **3.00-3.50**
 Sample Type: **U**

Initial Conditions		Pressure Range	Mv	Cv	Method of time fitting used
Moisture Content (%):	48	kPa	m2/MN	m2/yr	Cv Calculated using t90
Bulk Density (Mg/m3):	1.76	0 - 50	2.1	0.36	Nominal Laboratory Temperature
Dry Density (Mg/m3):	1.19	50 - 100	0.71	0.18	20°C
Voids Ratio:	1.2282	100 - 200	0.39	0.24	Location of specimen with sample
Degree of saturation:	104.3				Top
Height (mm):	18.77				Remarks:
Diameter (mm)	75.03				
Particle Density (Mg/m3)	2.65				
Assumed					



GSTL
 GEO Site & Testing Services Limited

B. Sharp

Checked by

Date approved:

D.P. Gons

Approved by

10/02/16

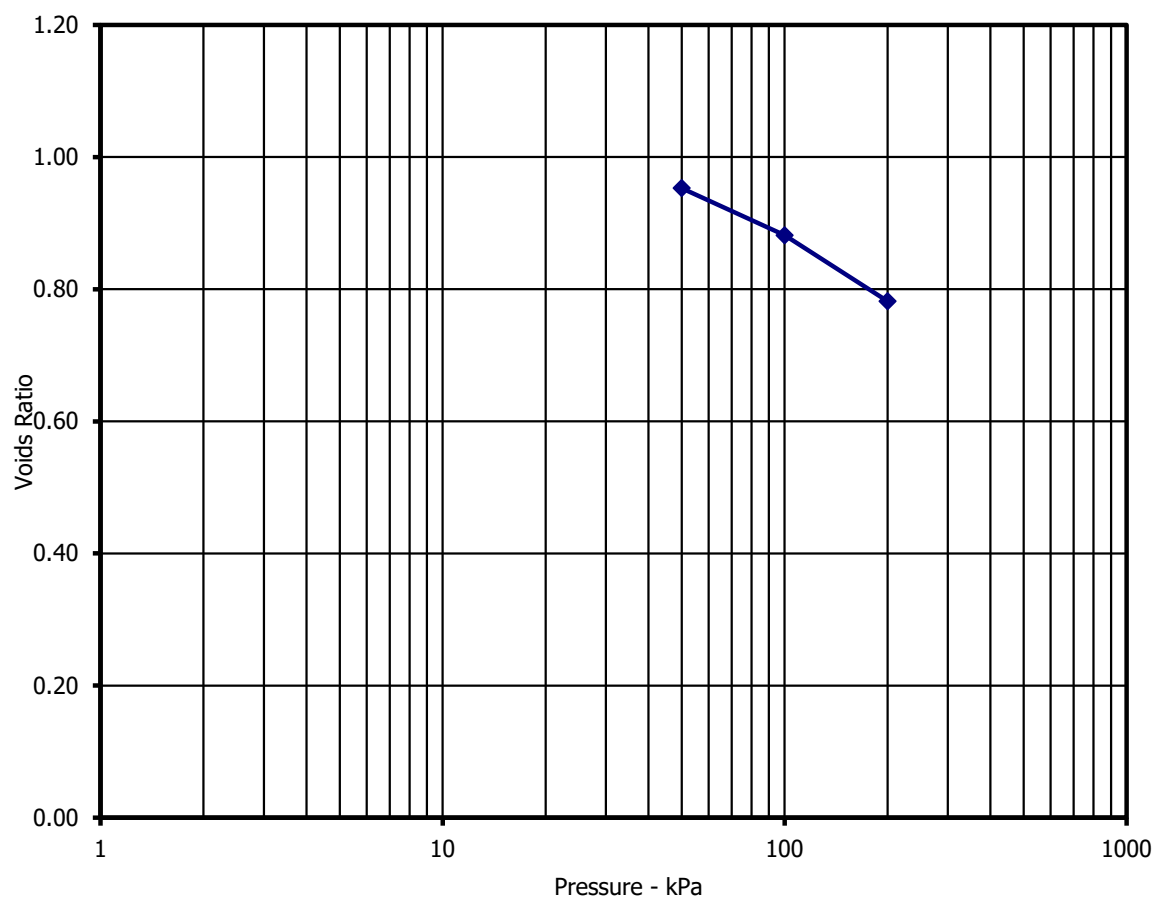


Test Report: ONE DIMENSIONAL CONSOLIDATION

BS 1377 : Part 5 : 3 : 1990

Client ref: **G762**
 Location: **Burrows Yard**
 Contract Number: **29661-**
 Hole/Sample Number: **QBH04**
 Depth (m) : **3.00**
 Sample Type: **U**

Initial Conditions		Pressure Range	Mv	Cv	Method of time fitting used
Moisture Content (%):	42	kPa	m2/MN	m2/yr	Cv Calculated using t90
Bulk Density (Mg/m3):	1.79	0 - 50	1.4	2.8	Nominal Laboratory Temperature
Dry Density (Mg/m3):	1.26	50 - 100	0.73	1.2	20°C
Voids Ratio:	1.1037	100 - 200	0.53	1.1	Location of specimen with sample
Degree of saturation:	100.5				Top
Height (mm):	20				Remarks:
Diameter (mm)	75				
Particle Density (Mg/m3)	2.65				
Assumed					



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 GEO Site & Testing Services Limited

B. Shep
 Checked by
 Date approved:

D.P. Gons
 Approved by
 09/02/16

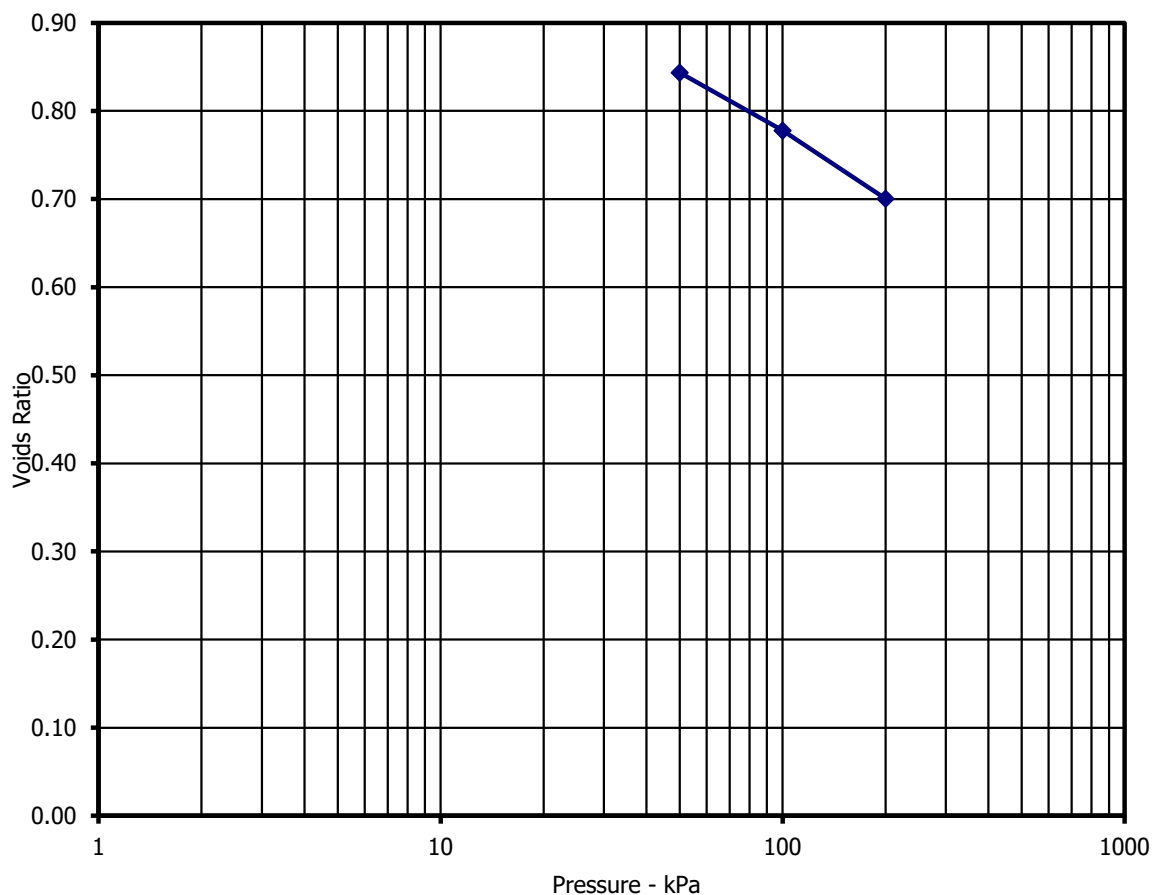


Test Report: ONE DIMENSIONAL CONSOLIDATION

BS 1377 : Part 5 : 3 : 1990

Client ref: **G762**
 Location: **Burrows Yard**
 Contract Number: **29661-**
 Hole/Sample Number: **QBH05**
 Depth (m) : **3.00-3.50**
 Sample Type: **U**

Initial Conditions		Pressure Range	Mv	Cv	Method of time fitting used
Moisture Content (%):	38	kPa	m2/MN	m2/yr	Cv Calculated using t90
Bulk Density (Mg/m3):	1.85	0 - 50	1.4	0.43	Nominal Laboratory Temperature
Dry Density (Mg/m3):	1.34	50 - 100	0.71	0.45	20°C
Voids Ratio:	0.9776	100 - 200	0.43	0.47	Location of specimen with sample
Degree of saturation:	103.7				Top
Height (mm):	20				Remarks:
Diameter (mm)	75				
Particle Density (Mg/m3)	2.65				
Assumed					



GSTL
 GEO Site & Testing Services Limited

B. Shep

Checked by

Date approved:

D.P. Gons

Approved by

09/02/16

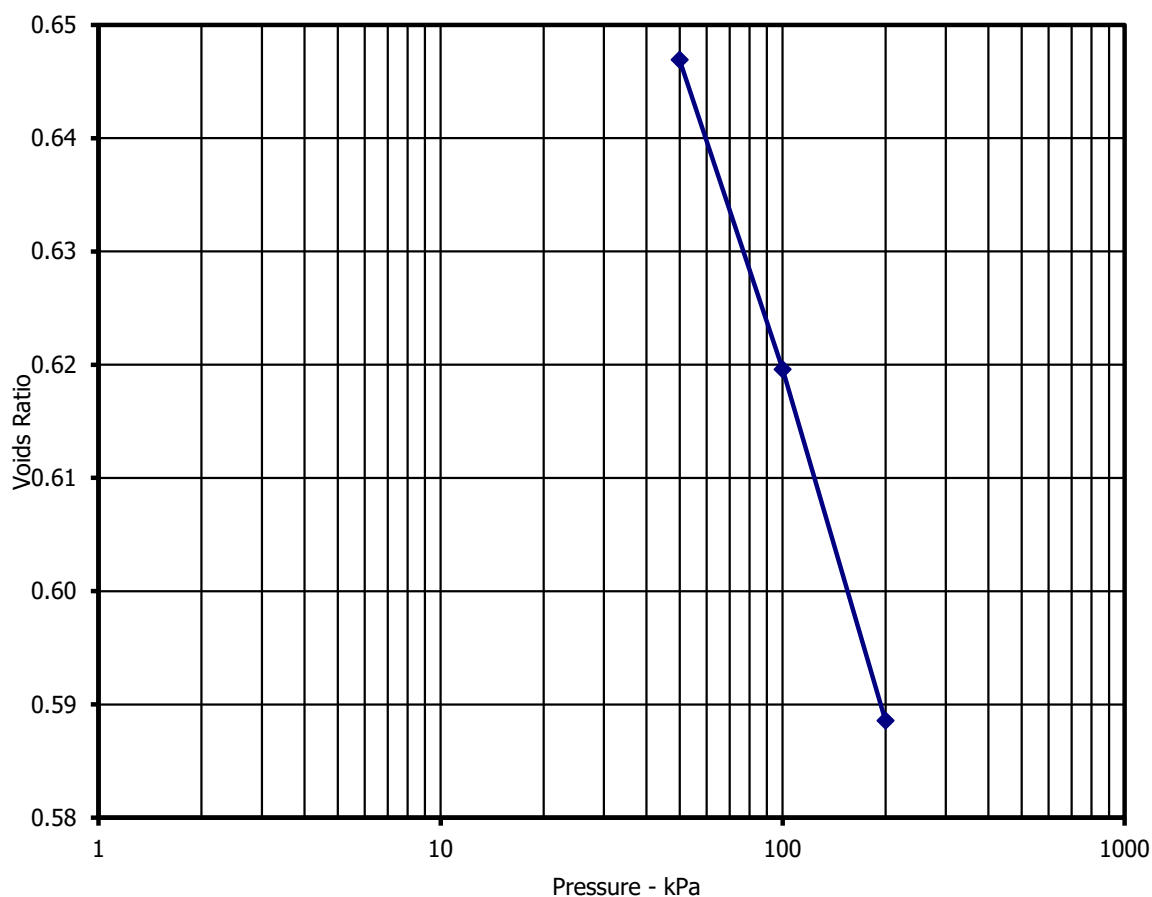


Test Report: ONE DIMENSIONAL CONSOLIDATION

BS 1377 : Part 5 : 3 : 1990

Client ref: **G762**
 Location: **Burrows Yard**
 Contract Number: **29661-**
 Hole/Sample Number: **QBH06**
 Depth (m) : **3.00-3.50**
 Sample Type: **U**

Initial Conditions		Pressure Range	Mv	Cv	Method of time fitting used
Moisture Content (%):	26	kPa	m2/MN	m2/yr	Cv Calculated using t90
Bulk Density (Mg/m3):	1.93	0 - 50	1	7	Nominal Laboratory Temperature
Dry Density (Mg/m3):	1.52	50 - 100	0.33	7.2	20°C
Voids Ratio:	0.7379	100 - 200	0.19	10	Location of specimen with sample
Degree of saturation:	94.5				Top
Height (mm):	19.84				Remarks:
Diameter (mm)	74.93				
Particle Density (Mg/m3)	2.65				
Assumed					



GSTL
 GEO Site & Testing Services Limited

B. Shep

Checked by

Date approved:

D.P. Gons

Approved by

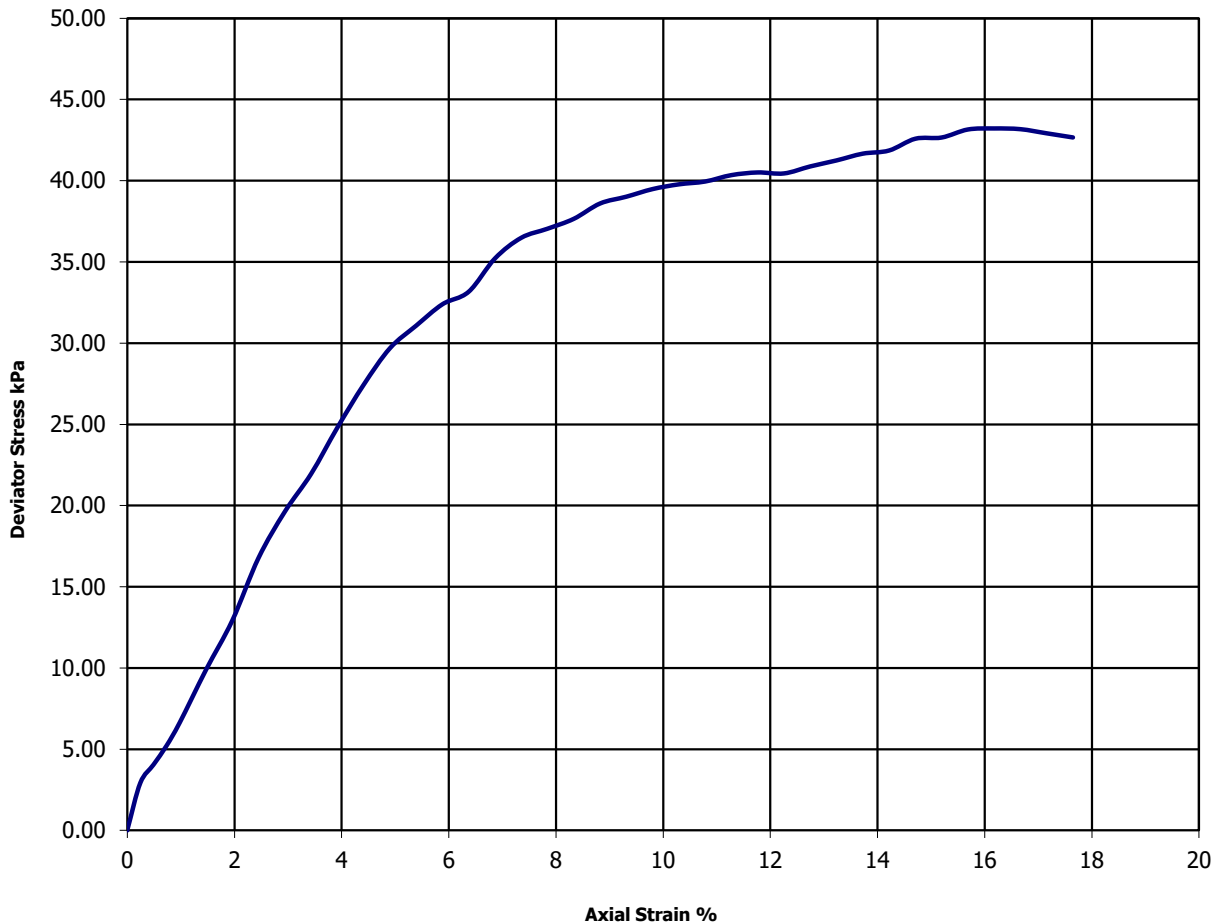
10/02/16



Test Report:

Undrained Shear Strength in Triaxial Compression
BS 1377 : Part 7 : Clause 8 : 1990 Single Stage Test
without measurement of Pore Pressure

Client ref: G762
Location: Burrows Yard
Contract Number: 29661-
Hole Number: QBH01
Sample Number: 12
Depth (m) : 4.00 - 4.50
Sample Type : U
Sample Description : Greyish brown soft silty CLAY



Diameter (mm):		104	Height (mm):		204	Test:		U 104 mm Single Stage.		
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Deviator Stress (kPa)	Cohesion (kPa)	Failure Strain (%)	Mode of Failure	Remarks	
	A	38.0	1.98	1.43	80	43	22	16.2	Plastic	Sample taken from Top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness



Checked By
 Emma Williams (Office Manager)
 Date Approved:

Approved By:
 Paul Evans (Quality Manager)
 9.2.16



Test Report:**Undrained Shear Strength in Triaxial Compression
BS 1377 : Part7 : Clause 8 : 1990 Single Stage Test
without measurement of Pore Pressure****Client ref:****G762****Location:****Burrows Yard****Contract Number:****29661-****Hole Number****QBH01****Sample Number:****12****Depth (m) :****4.00 - 4.50****Sample Type :****U****Post Test Specimen****Specimen Split**

Diameter (mm):		104	Height (mm):		204	Test:	U 104 mm Single Stage.		
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa)	Deviator Stress (kPa)	Cohesion (kPa)	Failure Strain (%)	Mode of Failure	Remarks
A	38.0	1.98	1.43	80	43	22	16.2	Plastic	Sample taken from Top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness



Checked By
Emma Williams (Office Manager)
Date Approved:

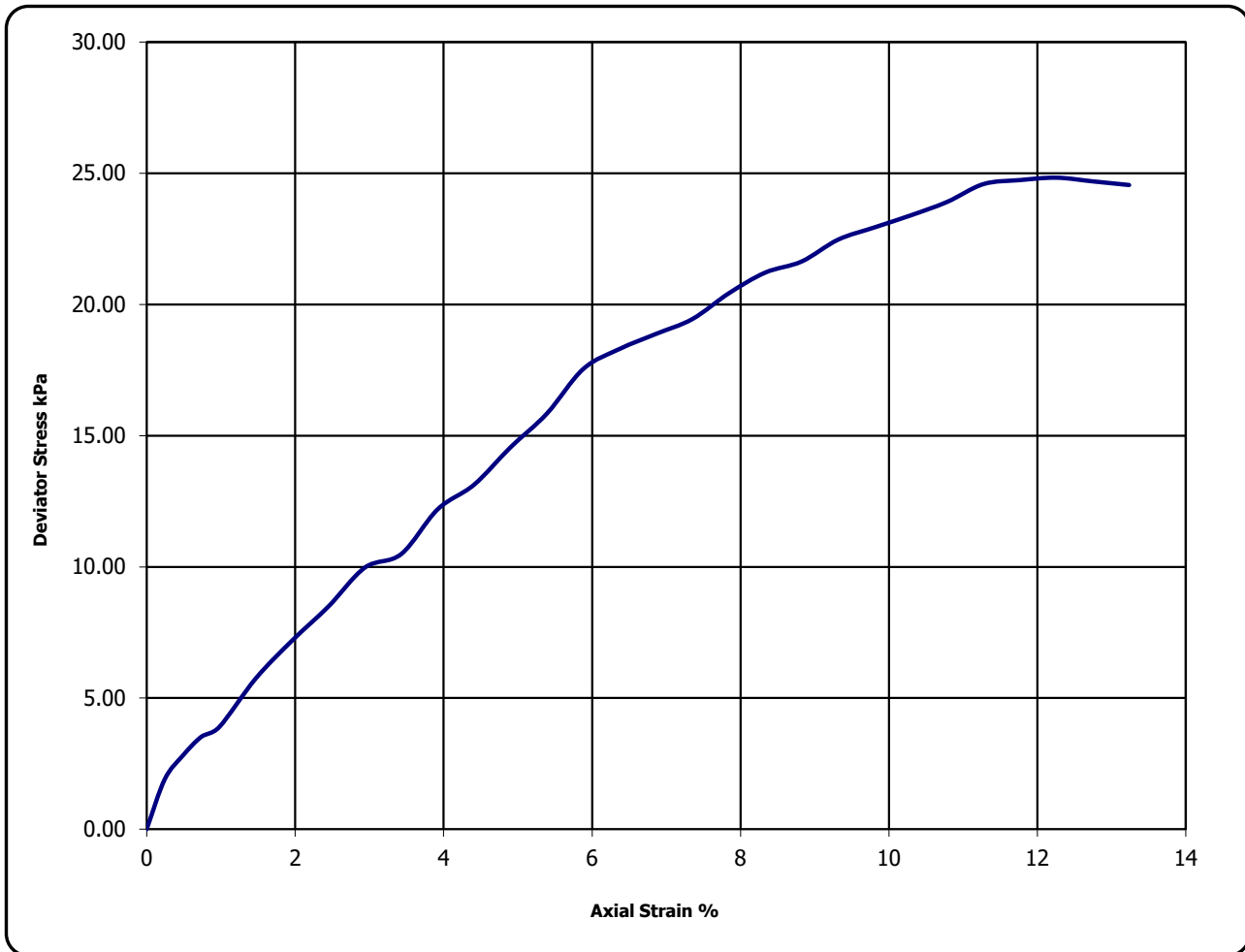
Approved By:
Paul Evans (Quality Manager)
1.2.16



Test Report:

Undrained Shear Strength in Triaxial Compression
BS 1377 : Part 7 : Clause 8 : 1990 Single Stage Test
without measurement of Pore Pressure

Client ref: G762
Location: Burrows Yard
Contract Number: 29661-
Hole Number: QBH04
Sample Number: 8
Depth (m) : 3.00 - N/A
Sample Type : U
Sample Description : Greyish brown soft silty CLAY



Diameter (mm):		102	Height (mm):		204	Test:	U 102 mm Single Stage.		
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Deviator Stress (kPa)	Cohesion (kPa)	Failure Strain (%)	Mode of Failure	Remarks
	A	41.0	2.01	1.43	60	25	12	12.3	Compound
									Sample taken from Top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness



Checked By
 Emma Williams (Office Manager)
 Date Approved:

Approved By:
 Paul Evans (Quality Manager)
 9.2.16



Test Report:

Undrained Shear Strength in Triaxial Compression
BS 1377 : Part7 : Clause 8 : 1990 Single Stage Test
without measurement of Pore Pressure

Client ref:**G762****Location:****Burrows Yard****Contract Number:****29661-****Hole Number****QBH04****Sample Number:****8****Depth (m) :****3.00 - N/A****Sample Type :****U****Post Test Specimen****Specimen Split**

Diameter (mm):		102	Height (mm):		204	Test:	U 102 mm Single Stage.		
Specimen	Moisture	Bulk	Dry	Cell	Deviator	Cohesion	Failure	Mode	Remarks
	Content	Density	Density	Pressure	Stress	(kPa)	Strain	of	Sample taken from Top of tube
	(%)	(Mg/m3)	(Mg/m3)	(kPa)	(kPa)		(%)	Failure	Rate of strain = 2 %/min
A	41.0	2.01	1.43	60	25	12	12.3	Compound	Latex Membrane used 0.2 mm thickness



Emma Williams

Checked By
 Emma Williams (Office Manager)
 Date Approved:

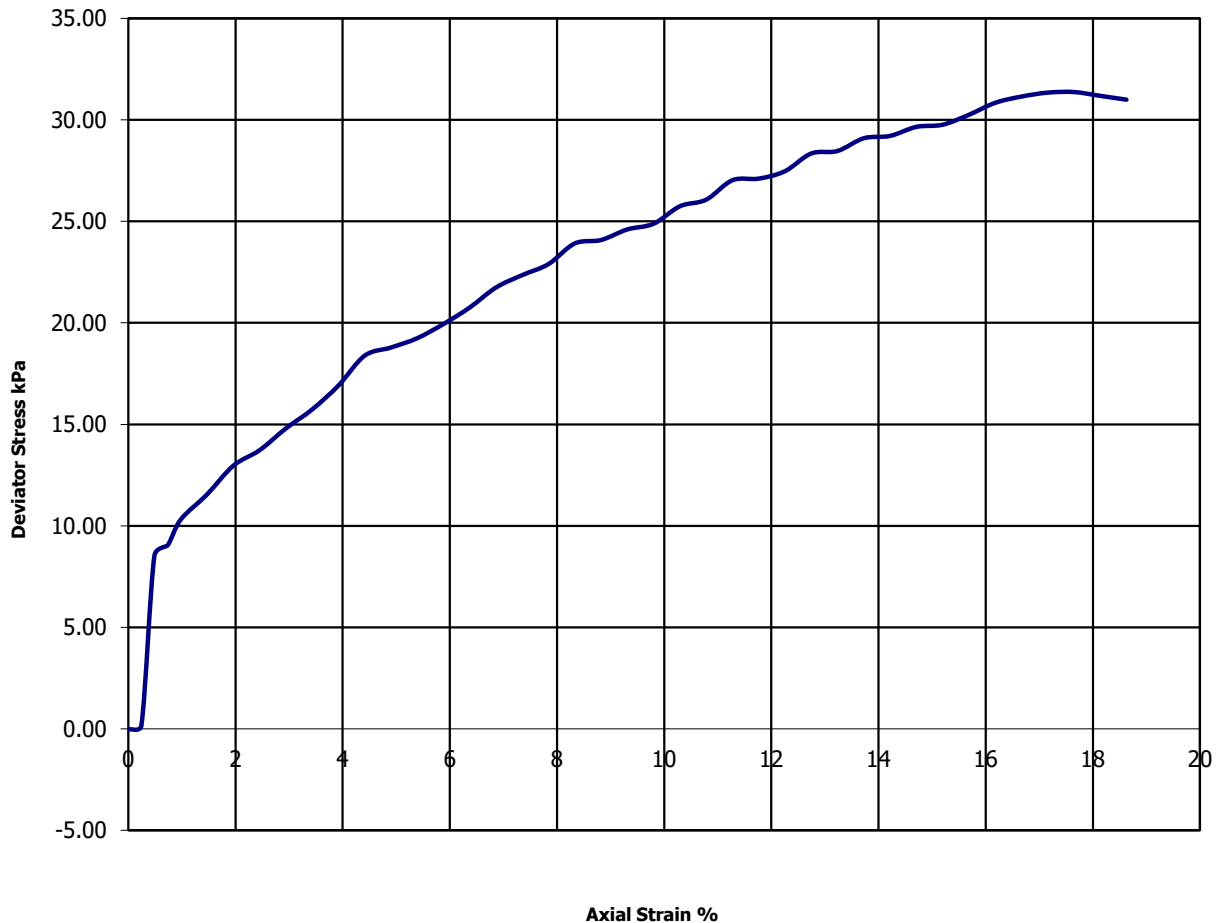
Paul Evans

Approved By:
 Paul Evans (Quality Manager)
 1.2.16



Test Report:**Undrained Shear Strength in Triaxial Compression
BS 1377 : Part 7 : Clause 8 : 1990 Single Stage Test
without measurement of Pore Pressure**

Client ref: G762
Location: Burrows Yard
Contract Number: 29661-
Hole Number: QBH05
Sample Number: 10
Depth (m) : 3.00 - 3.50
Sample Type : U
Sample Description : Brown soft silty CLAY



Diameter (mm):		102	Height (mm):		204	Test:		U 102 mm Single Stage.		
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Deviator Stress (kPa)	Cohesion (kPa)	Failure Strain (%)	Mode of Failure	Remarks	
	A	38.0	1.97	1.43	60	31	16	17.6	Plastic	Sample taken from Top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness

Test Report:

Undrained Shear Strength in Triaxial Compression
BS 1377 : Part7 : Clause 8 : 1990 Single Stage Test
without measurement of Pore Pressure

Client ref:**G762****Location:****Burrows Yard****Contract Number:****29661-****Hole Number****QBH05****Sample Number:****10****Depth (m) :****3.00 - 3.50****Sample Type :****U****Post Test Specimen****Specimen Split**

Diameter (mm):		102	Height (mm):		204	Test:	U 102 mm Single Stage.		
Specimen	Moisture	Bulk	Dry	Cell	Deviator	Cohesion	Failure	Mode	Remarks
	Content	Density	Density	Pressure	Stress	(kPa)	Strain	of	Sample taken from Top of tube
	(%)	(Mg/m3)	(Mg/m3)	(kPa)	(kPa)		(%)	Failure	Rate of strain = 2 %/min
A	38.0	1.97	1.43	60	31	16	17.6	Plastic	Latex Membrane used 0.2 mm thickness



Emma Williams

Checked By
 Emma Williams (Office Manager)
 Date Approved:

Paul Evans

Approved By:
 Paul Evans (Quality Manager)
 1.2.16





Contract Number: 29662

Client's Reference: **G762**

Report Date: **10-02-2016**

Client **Dawnus Construction Limited C/O Quantum Geotechnic**
Ty Berwig
Bynea
Llanelli.
Carmarthenshire.
SA14 9ST

Contract Title: **Burrows Yard**
For the attention of: **Gareth Morris**

Date Received: **20-01-2016**
Date Commenced: **20-01-2016**
Date Completed: **10-02-2016**

Test Description	Qty
Moisture Content 1377 : 1990 Part 2 : 3.2 - * UKAS	8
4 Point Liquid & Plastic Limit (LL/PL) 1377 : 1990 Part 2 : 4.3 & 5.3 - * UKAS	8
PSD Wet Sieve method 1377 : 1990 Part 2 : 9.2 - * UKAS	9
PSD: Sedimentation by pipette carried out with Wet Sieve 1377 : 1990 Part 2 : 9.4 - * UKAS	7
Disposal of Samples on Project	1

Notes: Observations and Interpretations are outside the UKAS Accreditation
* - denotes test included in laboratory scope of accreditation
- denotes test carried out by approved contractor
@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Approved Signatories:

Alex Wynn (Associate Director) - Benjamin Sharp (Contracts Manager) - Emma Sharp (Office Manager)
Paul Evans (Quality/Technical Manager) - Vaughan Edwards (Managing Director)

Client ref: G762
Location: Burrows Yard
Contract Number: 29662-

[illegible]

Note: Results on this table are in summary format and may not meet the requirements of the relevant standards, additional information is held by the laboratory



For and behalf of GEO Site & Testing Services Ltd

Authorised By:
Emma Sharp (Office Manager)

Date: 9.2.16

End

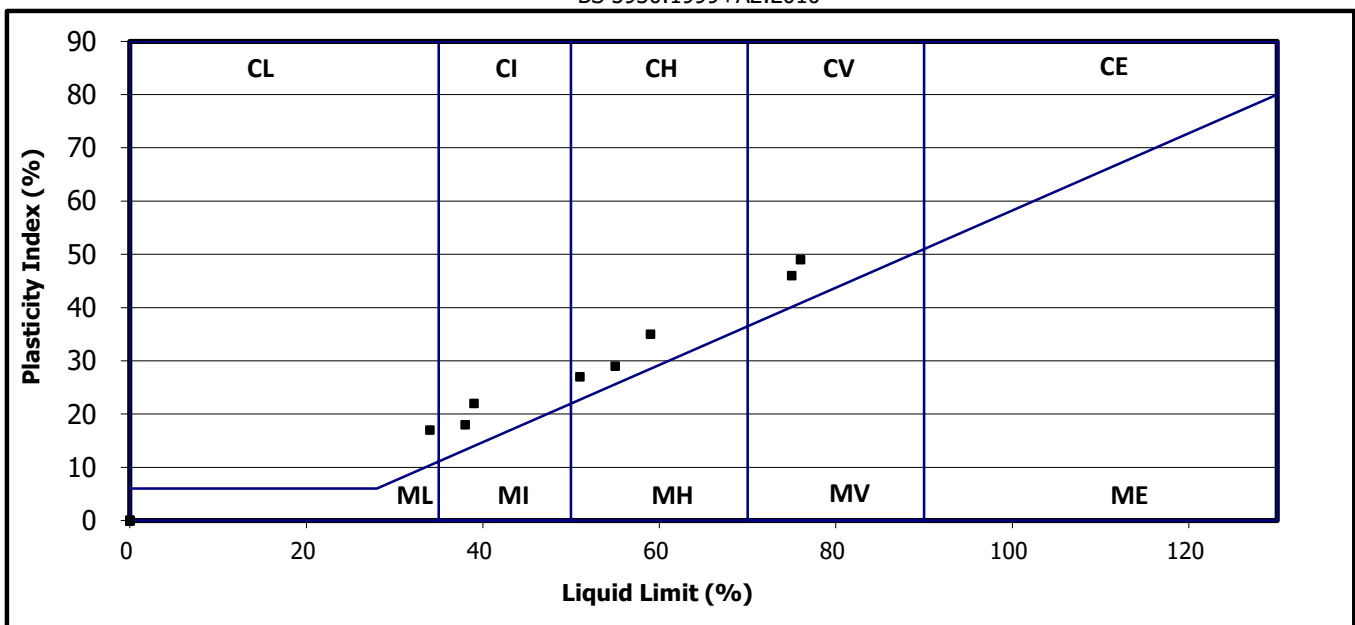


**Test Report: Method of the Determination of the plastic limit and plasticity index
BS 1377 : Part 2 : 1990 Method 5**

Client ref: G762
Location: Burrows Yard
Contract Number: 29662-

Hole/ Sample Number	Sample Type	Depth m	Moisture Content % Cl. 3.2	Liquid Limit % Cl. 4.3/4.4	Plastic Limit % Cl. 5.	Plasticity Index % Cl. 6.	% Passing .425mm	Remarks
QTP02A/4	B	2.10 - 2.30	27	34	17	17	100	CL Low Plasticity
QTP07/7	B	2.20 - 2.50	31	51	24	27	100	CH High Plasticity
QTP10/7	B	2.50 - 3.00	42	59	24	35	100	CH High Plasticity
QTP12/7	B	2.30 - 2.70	32	55	26	29	100	CH High Plasticity
QTP13/7	B	2.50 - 3.00	47	75	29	46	100	CV Very High Plasticity
QTP14/4	B	0.50 - 1.00	22	39	17	22	100	CI Intermediate Plasticity
QTP15/9	B	2.50 - 3.00	47	76	27	49	100	CV Very High Plasticity
QTP18/4	B	1.00 - 1.50	27	38	20	18	100	CI Intermediate Plasticity

Symbols: NP : Non Plastic # : Liquid Limit and Plastic Limit Wet Sieved
PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.
BS 5930:1999+A2:2010



Test Report:

Particle Size Distribution Test **BS 1377 Part 2:1990.**

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

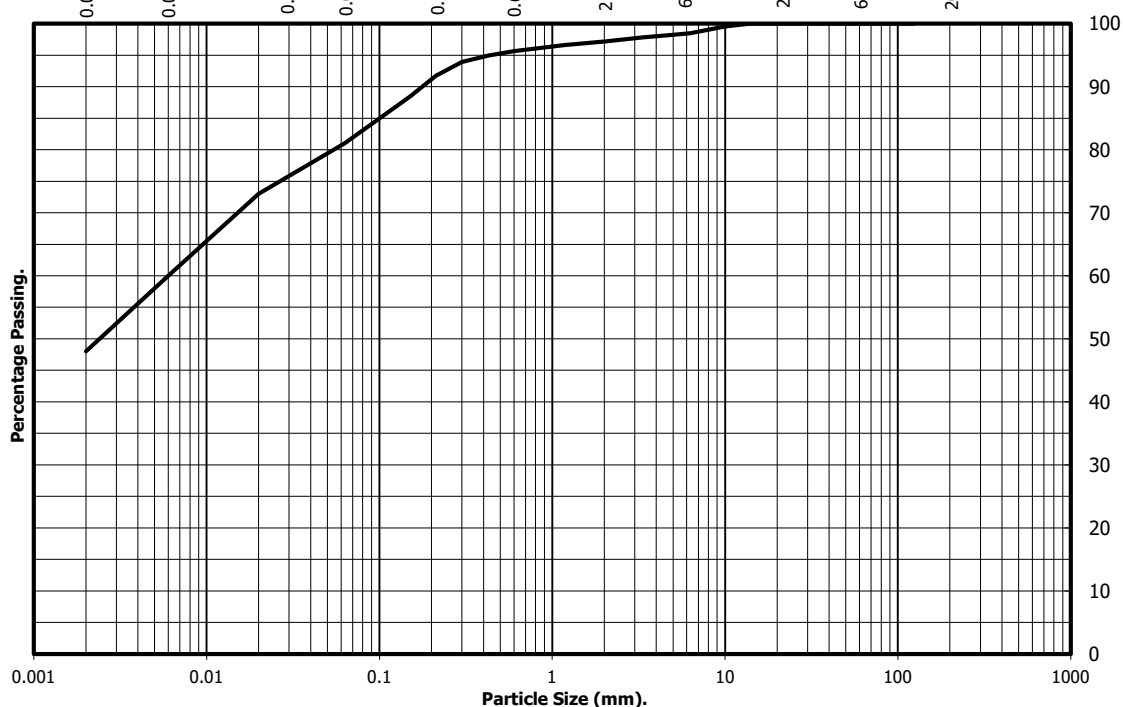
Client ref: G763
Contract Number: 29662-
Hole Number: QTP05

Sample Number: 7
Depth from (m): 2.10
Depth to (m): 2.60
Sample Type: B

Location: Burrows Yard
Description: Brown gravelly sandy fine to medium silty CLAY.

	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	
CLAY	SILT			SAND			GRAVEL			COBBLES

BS Test Sieve	% Passing
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	99
5.0	98
3.35	98
2.00	97
1.18	97
0.60	96
0.425	95
0.300	94
0.212	92
0.150	88
0.063	81



Particle Diameter	% Passing
0.02	73
0.006	60
0.002	48

Clay	Silt	Sand	Gravel	Cobbles	Soil Fraction
48	33	16	3	0	Total Percentage

Remarks:

CI 9.4.8 - Sample has not been pretreated

For and behalf of GEO Site & Testing Services Ltd

Authorised By:
 Emma Sharp (Office Manager)

Date: 10.2.16

Signature



Test Report:

Particle Size Distribution Test **BS 1377 Part 2:1990.**

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

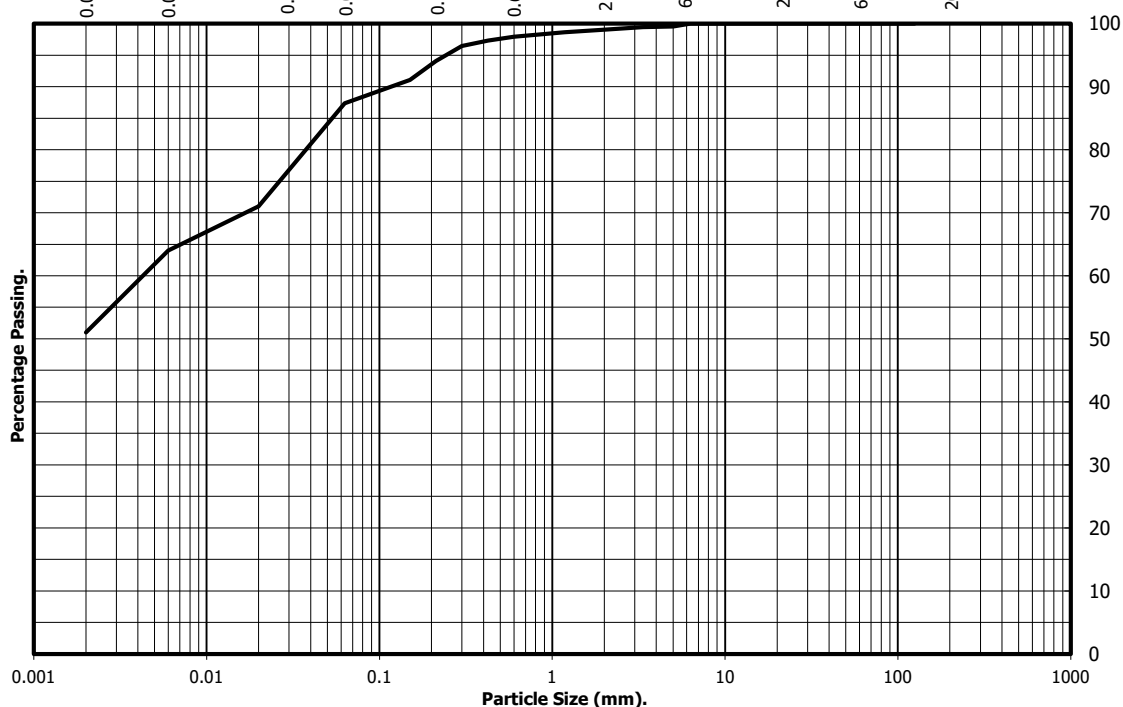
Client ref: **G763**
 Contract Number: **29662-**
 Hole Number: **QTP06**

Sample Number: **7**
 Depth from (m): **2.00**
 Depth to (m): **2.30**
 Sample Type: **B**

Location: **Burrows Yard**
 Description: **Brown gravelly sandy fine to medium silty CLAY.**

CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve	% Passing
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5.0	100
3.35	99
2.00	99
1.18	99
0.60	98
0.425	97
0.300	96
0.212	94
0.150	91
0.063	87



Particle Diameter	% Passing
0.02	71
0.006	64
0.002	51

Clay	Silt	Sand	Gravel	Cobbles	Soil Fraction
51	36	12	1	0	Total Percentage

Remarks:

CI 9.4.8 - Sample has not been pretreated

For and behalf of GEO Site & Testing Services Ltd

Authorised By:
 Emma Sharp (Office Manager)

Date: **10.2.16**

Emma Sharp



Test Report:

Particle Size Distribution Test **BS 1377 Part 2:1990.**

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

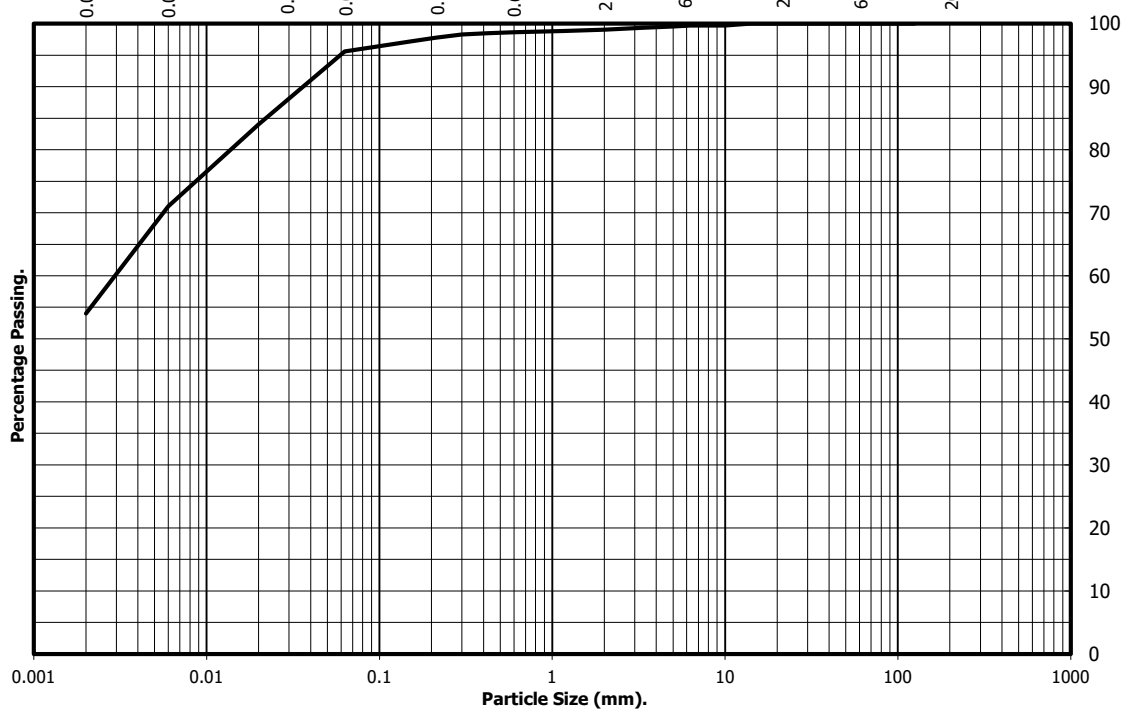
Client ref: **G763**
 Contract Number: **29662-**
 Hole Number: **QTP08**

Sample Number: **7**
 Depth from (m): **2.50**
 Depth to (m): **3.00**
 Sample Type: **B**

Location: **Burrows Yard**
 Description: **Brown gravelly sandy fine to medium silty CLAY.**

	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	
CLAY	SILT			SAND			GRAVEL			COBBLES

BS Test Sieve	% Passing
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5.0	100
3.35	99
2.00	99
1.18	99
0.60	99
0.425	99
0.300	98
0.212	98
0.150	97
0.063	96



Particle Diameter	% Passing
0.02	84
0.006	71
0.002	54

Clay	Silt	Sand	Gravel	Cobbles	Soil Fraction
54	42	3	1	0	Total Percentage

Remarks:

CI 9.4.8 - Sample has not been pretreated

For and behalf of GEO Site & Testing Services Ltd

Authorised By:
 Emma Sharp (Office Manager)

Date: **10.2.16**

Signature



Test Report:

Particle Size Distribution Test **BS 1377 Part 2:1990.**

Wet Sieve, Clause 9.2

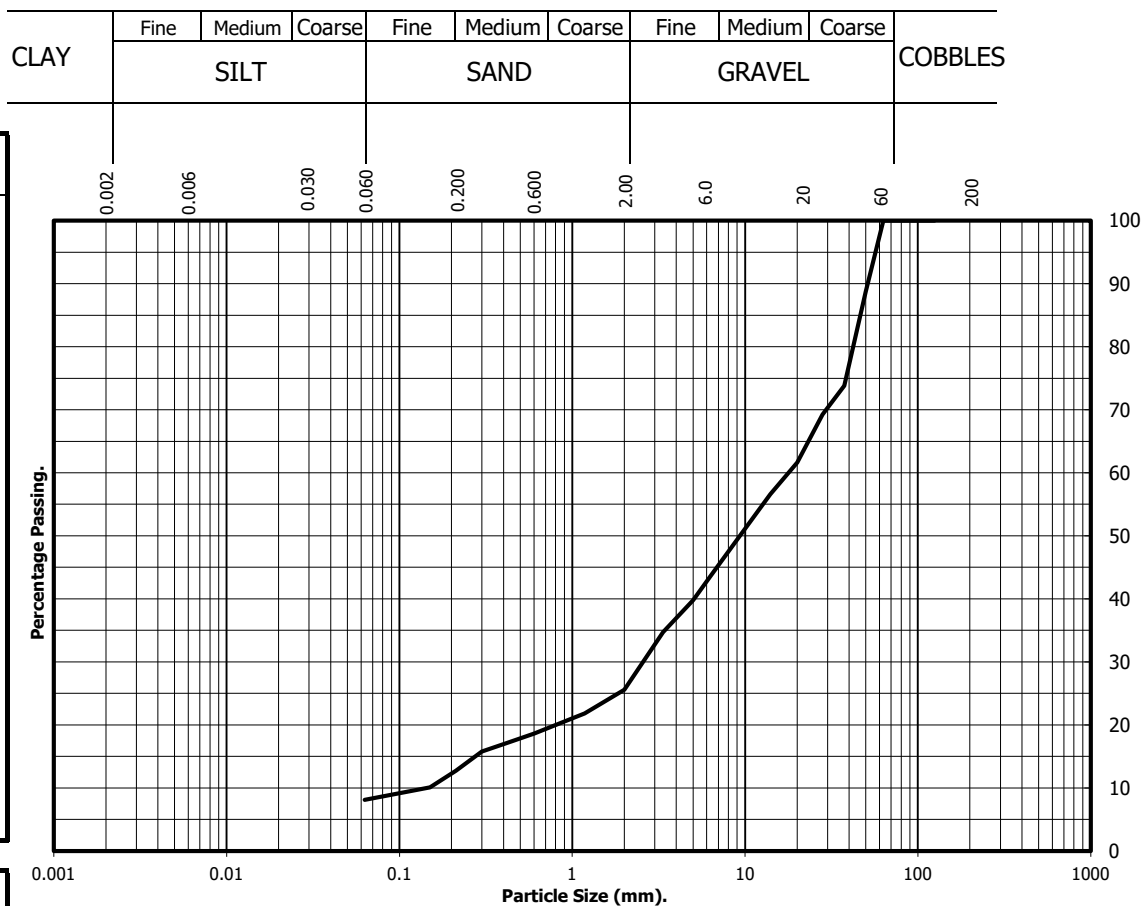
Client ref: **G763**
 Contract Number: **29662-**
 Hole Number: **QTP11**

Sample Number: **7**
 Depth from (m): **2.00**
 Depth to (m): **2.50**
 Sample Type: **B**

Location: **Burrows Yard**
 Description: **Brown silty clayey sandy fine to coarse GRAVEL.**

BS Test Sieve	% Passing
125	100
90	100
75	100
63	100
50	89
37.5	74
28	69
20	62
14	57
10	51
6.3	44
5.0	40
3.35	35
2.00	26
1.18	22
0.60	19
0.425	17
0.300	16
0.212	13
0.150	10
0.063	8

Particle Diameter	% Passing
0.02	#
0.006	#
0.002	#



	Silt and Clay	Sand	Gravel	Cobbles	Soil Fraction
	8	18	74	0	Total Percentage

Remarks:

#- not determined

For and behalf of GEO Site & Testing Services Ltd

Authorised By:
 Emma Sharp (Office Manager)

Date: **10.2.16**



Test Report:

Particle Size Distribution Test **BS 1377 Part 2:1990.**

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

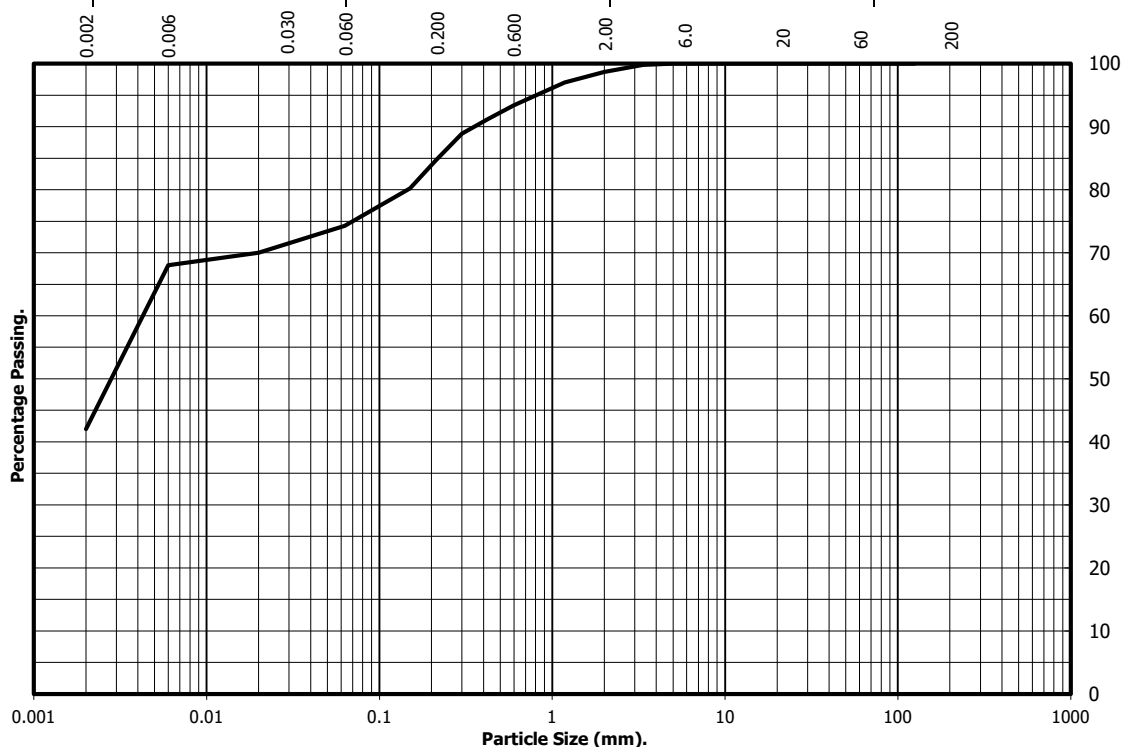
Client ref: **G763**
 Contract Number: **29662-**
 Hole Number: **QTP13**

Sample Number: **4**
 Depth from (m): **1.20**
 Depth to (m): **1.60**
 Sample Type: **B**

Location: **Burrows Yard**
 Description: **Brown gravelly sandy fine to medium silty CLAY.**

	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	
CLAY	SILT			SAND			GRAVEL			COBBLES

BS Test Sieve	% Passing
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5.0	100
3.35	100
2.00	99
1.18	97
0.60	93
0.425	91
0.300	89
0.212	85
0.150	80
0.063	74



Particle Diameter	% Passing
0.02	70
0.006	68
0.002	42

Clay	Silt	Sand	Gravel	Cobbles	Soil Fraction
42	32	25	1	0	Total Percentage

Remarks:

CI 9.4.8 - Sample has not been pretreated

For and behalf of GEO Site & Testing Services Ltd

Authorised By:
 Emma Sharp (Office Manager)

Date: **10.2.16**

Signature



Test Report:

Particle Size Distribution Test BS 1377 Part 2:1990.

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

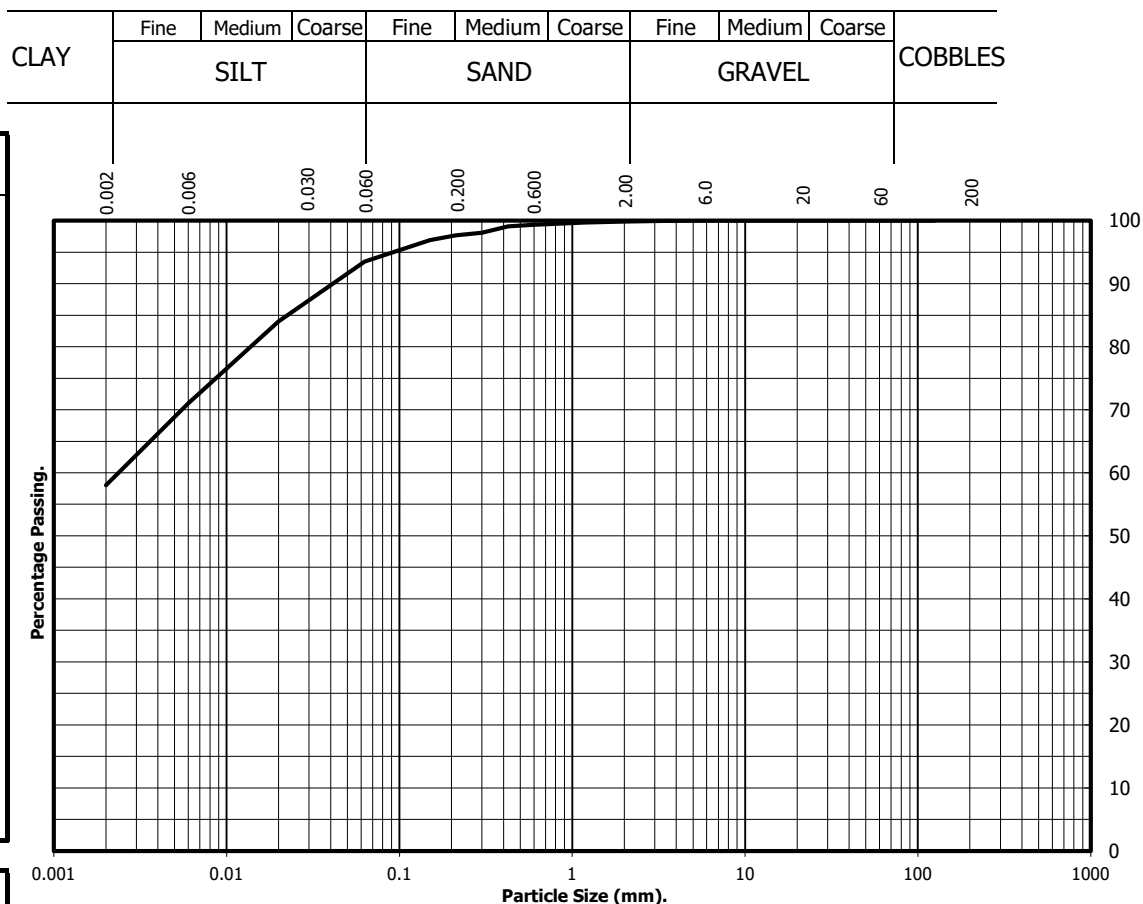
Client ref: **G763**
Contract Number: **29662-**
Hole Number: **QTP14**

Sample Number: **7**
Depth from (m): **2.50**
Depth to (m): **3.00**
Sample Type: **B**

Location: **Burrows Yard**
Description: **Brown sandy fine to medium silty CLAY.**

BS Test Sieve	% Passing
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5.0	100
3.35	100
2.00	100
1.18	100
0.60	99
0.425	99
0.300	98
0.212	98
0.150	97
0.063	94

Particle Diameter	% Passing
0.02	84
0.006	71
0.002	58



Clay	Silt	Sand	Gravel	Cobbles	Soil Fraction
58	36	6	0	0	Total Percentage

Remarks:

CI 9.4.8 - Sample has not been pretreated

For and behalf of GEO Site & Testing Services Ltd

Authorised By:
Emma Sharp (Office Manager)

Date: **10.2.16**



Test Report:

Particle Size Distribution Test **BS 1377 Part 2:1990.**

Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

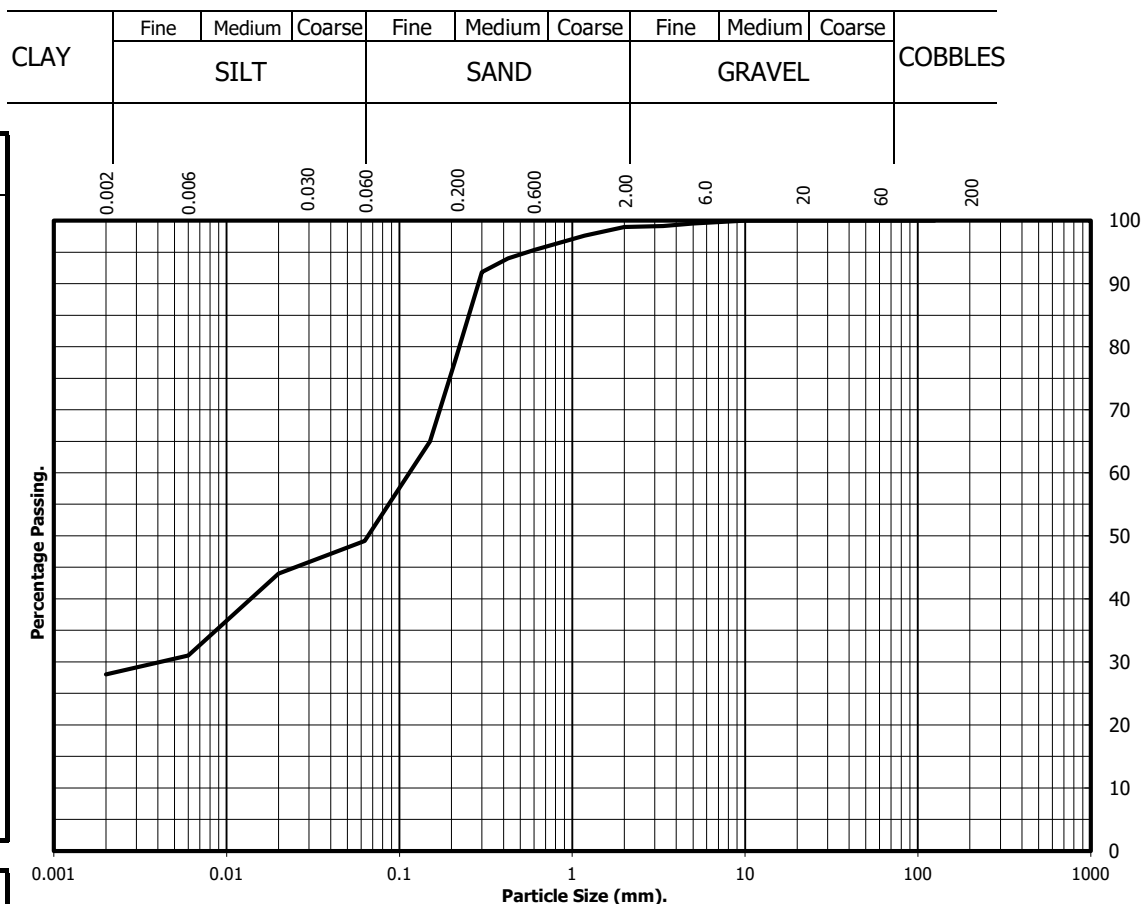
Client ref: G763
Contract Number: 29662-
Hole Number: QTP15

Sample Number: 4
Depth from (m): 1.00
Depth to (m): 1.50
Sample Type: B

Location: Burrows Yard
Description: Brown gravelly silty clayey fine to medium SAND.

BS Test Sieve	% Passing
125	100
90	100
75	100
63	100
50	100
37.5	100
28	100
20	100
14	100
10	100
6.3	100
5.0	100
3.35	99
2.00	99
1.18	98
0.60	95
0.425	94
0.300	92
0.212	78
0.150	65
0.063	49

Particle Diameter	% Passing
0.02	44
0.006	31
0.002	28



Clay	Silt	Sand	Gravel	Cobbles	Soil Fraction
28	21	50	1	0	Total Percentage

Remarks:

CI 9.4.8 - Sample has not been pretreated

For and behalf of GEO Site & Testing Services Ltd

Authorised By:
 Emma Sharp (Office Manager)

Date: 10.2.16

