

APPENDIX J

Geotechnical Test Results



Appendix J(1)

Geotechnical Test Results GRM (2006) Investigation





Client

Ground Risk Management Limited Bretby Business Park Ashby Road Burton-Upon-Trent Staffordshire DE15 0YZ

Report No: 50014386/06/1 Our Ref: DAM0005698

14 JUN 2006

Test Report

Site:

Harpur Hill, Buxton

BUREAU VERITAS LABORATORIES LIMITED

2 Newton Close

Northants NN11 8RR

Daventry

Drayton Fields Industrial Estate

Telephone: + 44 (0) 1327 703828

Facsimile: + 44 (0) 1327 300154 daventry@uk.bureauveritas.com

Test Requested: Determination of Moisture Content, Atterberg Limits, Sulphate Content and pH Value

Test Method:

BS 1377-2: 1990: Method 3.2, 4.4 and 5 BS 1377-3: 1990: Method 5 and 9

Sample Details:

Sampled by:ClientDate Received:24.05.06Tested From:24.05.06 to 07.06.06

Results:

See attached sheets

Page: 1 of 3 Date: 09.06.06

Signed:		[] D. Goddard - Laboratory Manage u Veritas Laboratories Limited		
Cian ad.	Tac	[J. Cross - Section Manager		

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Determination of Moisture Content and Atterberg Limits

Client:	Ground Risk Management Limited
Site:	Harpur Hill, Buxton

Report No: 50014386/06/1

			Moisture				% Retained
Laboratory	Location	Depth	Content	Liquid	Plastic	Plasticity	425µm BS
Reference		(m)	(%)	Limit	Limit	Index	Test Sieve
							(Estimated)
45026938	STP2	0.50-0.70	28	36	21	15	0
45026939	STP5	0.40-0.60	25	32	21	11	0
45026940	TP5	0.60-0.80	25	33	23	10	0
45026941	TP9	1.40-1.60	17	43	19	24	0
45026942	TP16A	0.60-0.80	20	32	20	12	3
45026943	TP1	0.30-0.50	28	34	24	10	21
45026944	TP12	0.40-0.60	32	52	26	26	0
45026945	TP13	0.40-0.60	21	31	20	11	0 .
45026946	TP15	0.30-0.50	30	44	21	23	0

Comments:

Sample Type Disturbed

Sample Preparation: Natural

Descriptions:

45026938	Soft to firm slightly sandy CLAY
45026939	Soft brown sandy CLAY
45026940	Soft brown silty CLAY
45026941	Soft to firm yellow grey brown mottled CLAY
45026942	Soft brown fine sandy CLAY with occasional gravel
45026943	Soft brown sandy CLAY with occasional gravel
45026944	Soft brown sandy CLAY
45026945	Soft brown sandy CLAY
45026946	Soft brown CLAY

Signed:

Certified that the laboratory testing was carried out in accordance with BS 1377-2: 1990: Method 3.2, 4.4 and 5

Page: 2 of 3 Date: 09.06.06 J. Cross - Section Manager

[] D. Goddard - Laboratory Manager

For and on behalf of Bureau Veritas Laboratories Limited

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Determination of Sulphate Content and pH Value

Client: Site:

Ground Risk Management Limited Harpur Hill, Buxton

Report No: 50014386/06/1

			% Passing		Water Soluble
Laboratory	Location	Depth	2mm BS	pН	Sulphate
Reference		(m)	Test Sieve	Value	Content
					(g/l)
45026928	TP2	0.50-0.70	100	7.2	0.04
45026929	STP1	0.30-0.50	100	7.4	0.05
45026930	TP8	0.30-0.50	100	6.7	0.08
45026931	TP16A	2.10-2.30	95	8.0	0.07
45026932	TP19	0.30-0.50	100	6.8	0.03
45026933	STP4	0.30-0.50	100	7.0	0.03
45026934	TP10	0.30-0.50	100	7.8	0.03
45026935	TP6	1.00-1.20	100	8.1	0.03
45026936	STP5	1.20-1.40	71	7.1	0.04
45026937	TP11	1.10-1.30	92	7.1	0.04

Comments:

Sulphate Content expressed as SO₄

Certified that the laboratory testing was carried out in accordance with BS 1377-3: 1990: Method 5 and 9 Tested by UKAS laboratory No. 451

Page: 3 of 3 Date: 09.06.06

Signed:

[✓ J. Cross - Section Manager [] D. Goddard - Laboratory Manager For and on behalf of Bureau Veritas Laboratories Limited

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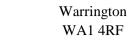


Appendix J(2)

Geotechnical Test Results ALM (2017) Investigation

Ruby House, 40A Hardwick Grange

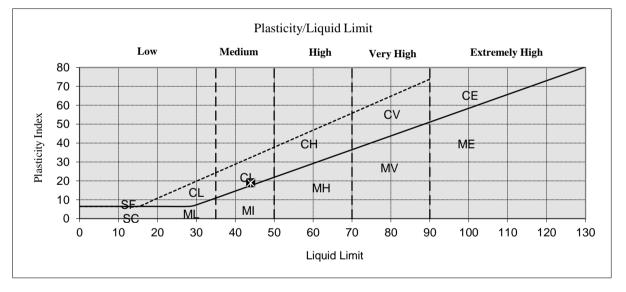






LABORATORY TEST REPORT LIQUID & PLASTIC LIMIT TESTS BS 1377: Part 2: 1990 Cl 4.4,5.3

Site Ref.:	Burlow Road, Buxton - Site B	Job No.:	N/A		
Client:	ALM Consult	Lab Ref No.:	SA30854		
		Sample Ref.:	TB101		
		Date Received:	29/08/2017		
		Date Tested:	15/09/2017		
Originator:	Keith	Date Reported:	15/09/2017		
Sampling Cert	ificate	Yes			
Sampled By		Client			
Sample Type		Bulk			
Sample Prepar	ration Method	As Received			
MATERIAL		Crumbly Brown Soily CLAY			
Retained 425	micron (%)	0.3			
Natural Moist	are Content (%)	30.6			
Liquid Limit (Liquid Limit (single point)(%)		44		
Plastic Limit (%)	25			
Plasticity Inde	х	19			



K.Monks

Approved Signature James Fisher Testing Services ■ Karl Monks, Acting Lab Team Leader

R02 R2 WTN



Ruby House, 40A Hardwick Grange

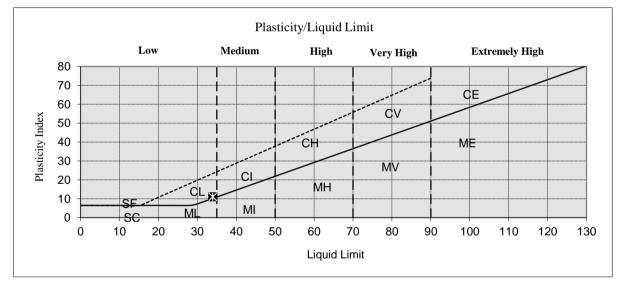


Warrington WA1 4RF



LABORATORY TEST REPORT LIQUID & PLASTIC LIMIT TESTS BS 1377: Part 2: 1990 Cl 4.4,5.3

Site Ref.: Client:	Burlow Road, Buxton - Site B ALM Consult	Job No.: Lab Ref No.:	N/A SA30854		
		Sample Ref.:	TB105		
		Date Received:	29/08/2017		
		Date Tested:	15/09/2017		
Originator:	Keith	Date Reported:	15/09/2017		
Sampling Cert	ificate	Yes			
Sampled By		Client			
Sample Type		Bulk			
Sample Prepar	ation Method	As Received			
MATERIAL		Brown Silty CLAY			
Retained 425 r	nicron (%)	1.4			
Natural Moistu	re Content (%)	26.3			
Liquid Limit (s	Liquid Limit (single point)(%)				
Plastic Limit (%)	23			
Plasticity Inde	X	11			



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R02 R2 WTN



Ruby House, 40A Hardwick Grange

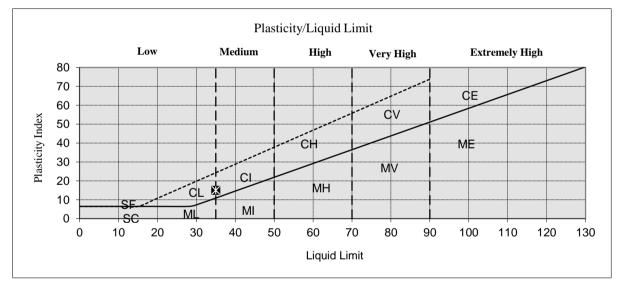






LABORATORY TEST REPORT LIQUID & PLASTIC LIMIT TESTS BS 1377: Part 2: 1990 Cl 4.4,5.3

Site Ref.:	Burlow Road, Buxton - Site B	Job No.:	N/A		
Client:	ALM Consult	Lab Ref No.:	SA30854		
		Sample Ref.:	TB110		
		Date Received:	29/08/2017		
		Date Tested:	15/09/2017		
Originator:	Keith	Date Reported:	15/09/2017		
Sampling Cert	ificate	Yes			
Sampled By		Client			
Sample Type		Bulk			
Sample Prepar	ration Method	As Received			
MATERIAL		Crumbly Brown Silty CLAY			
Retained 425 1	micron (%)	0.5			
Natural Moist	are Content (%)	28.4			
Liquid Limit (Liquid Limit (single point)(%)		35		
Plastic Limit (%)	20			
Plasticity Inde	х	15			



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R02 R2 WTN



Ruby House, 40A Hardwick Grange

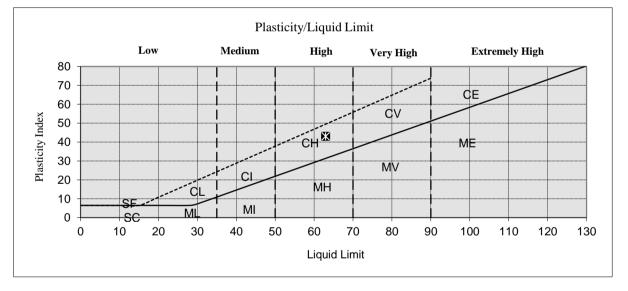


Warrington WA1 4RF



LABORATORY TEST REPORT LIQUID & PLASTIC LIMIT TESTS BS 1377: Part 2: 1990 Cl 4.4,5.3

Site Ref.:	Burlow Road, Buxton - Site B	Job No.:	N/A	
Client:	ALM Consult	Lab Ref No.:	SA30854	
		Sample Ref.:	TB115	
		Date Received:	29/08/2017	
		Date Tested:	15/09/2017	
Originator:	Keith	Date Reported:	15/09/2017	
Sampling Cert	ificate	Yes		
Sampled By		Client		
Sample Type		Bulk		
Sample Prepar	ration Method	As Received		
MATERIAL		Soft Yellow CLAY		
Retained 425	micron (%)	0.2		
Natural Moist	are Content (%)	33.0		
Liquid Limit (Liquid Limit (single point)(%)			
Plastic Limit (%)	20		
Plasticity Inde	х	43		



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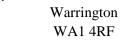
Approved Signature James Fisher Testing Services ■ Karl Monks, Acting Lab Team Leader

R02 R2 WTN



Ruby House, 40A Hardwick Grange

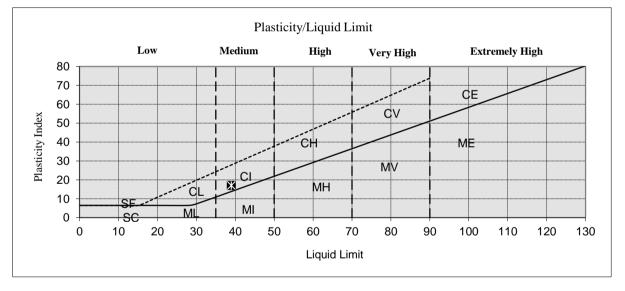






LABORATORY TEST REPORT LIQUID & PLASTIC LIMIT TESTS BS 1377: Part 2: 1990 Cl 4.4,5.3

Site Ref.:	Burlow Road, Buxton - Site B	Job No.:	N/A		
Client:	ALM Consult	Lab Ref No.:	SA30854		
		Sample Ref.:	TB123		
		Date Received:	29/08/2017		
		Date Tested:	15/09/2017		
Originator:	Keith	Date Reported:	15/09/2017		
Sampling Cert	ificate	Yes			
Sampled By		Client			
Sample Type		Bulk			
Sample Prepar	ation Method	As Received			
MATERIAL		Crumbly Brown Silty CLAY			
Retained 425 1	micron (%)	0			
Natural Moistu	are Content (%)	29.3			
Liquid Limit (Liquid Limit (single point)(%)		39		
Plastic Limit (22			
Plasticity Inde	X	17			



K.Monks

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R02 R2 WTN



Ruby House, 40A Hardwick Grange, Warrington WA1 4RF

Tel (01925 286880) Fax (01925 286881)





LABORATORY TEST REPORT

Determination of Particle Size Distribution -	BS	1377	: Part 2 : 1990
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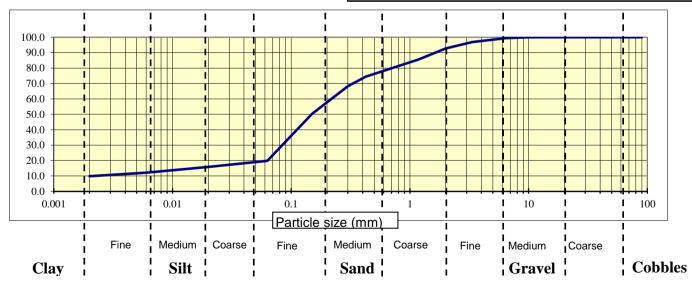
Site:	Burlow Road, Buxton - Site B	Job No.:	n/a
Client:	ALM Consult	Lab Ref No.:	SA30854
		Date Received:	29/08/2017
		Date Tested:	15/09/2017
		Date Reported:	15/09/2017
Originat	an Kaith		

Originator: Keith

Client Ref.: TB106

Description: Clayey Silt with soft lumps

BS Sieve Size	% Passing	Specification
125.0mm	100	
90.0mm	100	
75.0mm	100	
	100	
37.5mm		
28.0mm	100	
20.0mm	100	
14.0mm	100	
10.0mm	100	
6.3mm	99	
5.00mm	98	
3.35mm	97	
2.00mm	93	
1.18mm	86	
0.600mm	78	
0.425mm	74	
0.300mm	68	
0.150mm	50.4	
0.063mm	19.8	
0.02mm	15.9	
0.006mm	12.1	
0.002mm	9.8	



Tested in accordance with BS 1377: Part 2 : 1990 Clause 9.2 and 9.5 Sedimentation by Hydrometer, clause 9.5 - not UKAS Accredited

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K.Monks

Ruby House, 40A Hardwick Grange, Warrington WA1 4RF

Tel (01925 286880) Fax (01925 286881)





LABORATORY TEST REPORT

Site:	Burlow Road, Buxton - Site B	Job No.:	n/a
Client:	ALM Consult	Lab Ref No.:	SA30854
		Date Received:	29/08/2017
		Date Tested:	15/09/2017
		Date Reported:	15/09/2017
Originat	on. Koith		

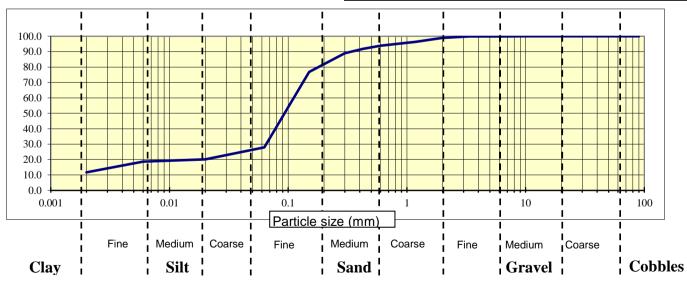
Originator: Keith

Client Ref.: T	B108
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Silt

Description:

BS Sieve	%	Specification
Size	Passing	-
125.0mm	100	
90.0mm	100	
75.0mm	100	
37.5mm	100	
28.0mm	100	
20.0mm	100	
14.0mm	100	
10.0mm	100	
6.3mm	100	
5.00mm	100	
3.35mm	100	
2.00mm	99	
1.18mm	96	
0.600mm	94	
0.425mm	92	
0.300mm	89	
0.150mm	76.8	
0.063mm	27.9	
0.02mm	20.1	
0.006mm	18.7	
0.002mm	11.7	



Tested in accordance with BS 1377: Part 2 : 1990 Clause 9.2 and 9.5 Sedimentation by Hydrometer, clause 9.5 - not UKAS Accredited

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Ruby House, 40A Hardwick Grange, Warrington WA1 4RF

Tel (01925 286880) Fax (01925 286881)





LABORATORY TEST REPORT

Determination of Particle Size Distribution - BS 1377 : Part 2 : 1990)

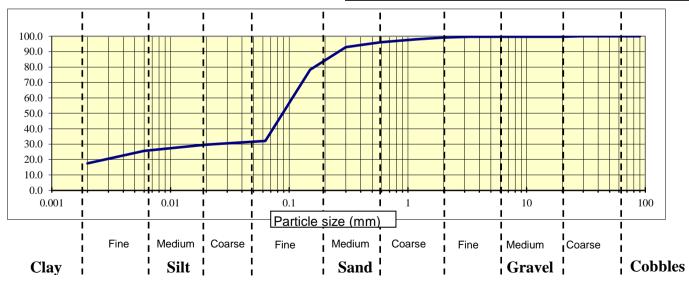
Site:	Burlow Road, Buxton - Site B	Job No.:	n/a
Client:	ALM Consult	Lab Ref No.:	SA30854
		Date Received:	29/08/2017
		Date Tested:	15/09/2017
		Date Reported:	15/09/2017
0	TZ 141		

Originator: Keith

Client Ref.:	TB121

Description: Clayey Silt

BS Sieve Size	% Passing	Specification
	0	
125.0mm	100	
90.0mm	100	
75.0mm	100	
37.5mm	100	
28.0mm	100	
20.0mm	100	
14.0mm	100	
10.0mm	100	
6.3mm	100	
5.00mm	100	
3.35mm	100	
2.00mm	99	
1.18mm	98	
0.600mm	96	
0.425mm	95	
0.300mm	93	
0.150mm	78.3	
0.063mm	32.0	
0.02mm	29.7	
0.006mm	25.7	
0.002mm	17.6	



Tested in accordance with BS 1377: Part 2 : 1990 Clause 9.2 and 9.5 Sedimentation by Hydrometer, clause 9.5 - not UKAS Accredited

K.Monks Approved Signature James Fisher Testing Services Karl Monks, Acting Lab Team Leader





DETERMINATION OF PARTICLE DENSITY BS 1377 : Part 2 : 1990

Project :	Burlow Road, Buxton - Site B	Lab Ref No:	SA30854
Client :	ALM Consult	Date Received:	29/08/2017
		Date Tested:	08/09/2017
		Date Reported:	15/09/2017
		Material Type:	Silt/Clay
Originator:	Keith	Sampling Certificate:	Yes

Sample Reference	Material Type	Particle Density (Mg/m ³)	
TB106	Loose Brown Clayey silt	2.59	
TB108	Brown silt	2.61	
TB121	Brown silt	2.60	

Tested in accordance with BS 1377: Part 2: 1990

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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project: Burlow Road, Buxton - Site B Client: ALM Consult			Lab Ref No.: Date Received: Date Tested: Date Reported: Material: Specification:		SA30854 29/08/2017 14/09/2017 15/09/2017 Loose brown clayey silt SHW Series 600: Table 6/2		
Originator: Keith							
Client Sample Ref : Supplier: Location:	TB106 Site Won Not Stated		Sample Ty Description		Bulk Loose bro	wn clayey sil	t
Date sampled : Sampling Cert :	28/09/2017 Yes		Comments	:			
Rammer used :		2.5	No of layer	rs:			3
No of sub samples :		5	% retained	d on 37.5n	nm sieve	0).0
Mould Size:		1L	% retained	d on 20mr	n sieve	0.0	
Bulk Density: Mg/m	n ³		1.67	1.95	1.96	1.93	1.91
Moisture Content:			7.9	17.2	25.3	28.0	30.2
Dry Density: Mg/m ³	3		1.55	1.66	1.56	1.51	1.47
1.70 1.65 1.60 1.55 1.50 1.45 1.40 7.0 9.	.0 11.0 15	3.0 15.0 17.0	% Air Voids	23.0 25		29.0 31.0	
					_		
Maximum Dr	ry Density (N	/lg/m³)	1.	66			
Optimum Mo	oisture Conte	ent (%)	1	7			
	1	Fested in accordance Particle Density					

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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Originator: Keith Client Sample Ref : TB108 Supplier: Site Won Location: Not Stated Date sampled : 28/09/201 Sampling Cert : Yes Rammer used : Yes No of sub samples : Mould Size: Bulk Density: Mg/m ³		Sample Ty Descriptio Comments No of laye	n : s :	:	6/2	s 600: Table
Supplier: Site Won Location: Not Stated Date sampled : 28/09/201 Sampling Cert : Yes Rammer used : Yes No of sub samples : Mould Size: Bulk Density: Mg/m ³ Moisture Content: % Dry Density: Mg/m ³ 1.90	7	Description Comments No of laye	n : s :			
Sampling Cert : Yes Rammer used : No of sub samples : Mould Size: Bulk Density: Mg/m ³ Moisture Content: % Dry Density: Mg/m ³	2.5	No of laye				
No of sub samples : Mould Size: Bulk Density: Mg/m ³ Moisture Content: % Dry Density: Mg/m ³ 						
Mould Size: Bulk Density: Mg/m ³ Moisture Content: % Dry Density: Mg/m ³	5		ers:			3
Bulk Density: Mg/m ³ Moisture Content: % Dry Density: Mg/m ³		% retaine	d on 37.5n	ım sieve	0	0.0
Moisture Content: % Dry Density: Mg/m ³	1L	% retaine	d on 20mn	n sieve	0	0.0
Moisture Content: % Dry Density: Mg/m ³		1.68	1.91	1.99	1.97	1.92
1.90		3.9	11.8	22.9	24.7	27.4
1.90		1.62	1.71	1.62	1.58	1.51
1.80 1.75 1.75 1.70 1.65 1.60 1.55 1.50 1.45 1.40	0% Air Voids 5%	6 Air Voids	- 10% Alr Voids			
2.5 4.5 6.5 8.5			20.5 22.5	24.5 26.5	28.5 30.5	
	Moistur	re Content %				
Maximum Dry Density (-		



1.71	
12	

Tested in accordance with BS 1377: Part 4:1990 Particle Density (Mg/m³) - 2.61Determined

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R05 R2 WTN
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DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Date Tested: Date Reported: Material: Originator: Keith Specification:	14/09/2017 15/09/2017 Brown Silt SHW Serie	1
Material:	Brown Silt	
Originator: Keith Specification:	SHW Serie	~ (00. Table
	6/2	s 000. Table
Client Sample Ref : TB121 Sample Type : Bulk		
Supplier:Site WonDescription :Brown Silt		
Location: Not Stated		
Date sampled : 28/09/2017 Comments :		
Sampling Cert : Yes		
Rammer used :2.5No of layers:		3
No of sub samples : 5 % retained on 37.5mm sieve		
Mould Size:1L% retained on 20mm sieve	0).0
Bulk Density: Mg/m³ 1.70 1.97 1.98	1.96	1.91
Moisture Content: % 7.1 15.0 23.8	26.0	28.7
Dry Density: Mg/m³ 1.59 1.71 1.60	1.56	1.48

Moisture Content %

19.0

17.0



9.0

11.0

13.0

15.0

7.0

1.71	
15	

21.0

23.0

25.0

27.0

29.0

Tested in accordance with BS 1377: Part 4:1990 Particle Density (Mg/m²) - 2.60 Determined

K.Monks

1.45 1.40

5.0

Approved Signature James Fisher Testing Services ■ Karl Monks, Acting Lab Team Leader R05 R1 WTN





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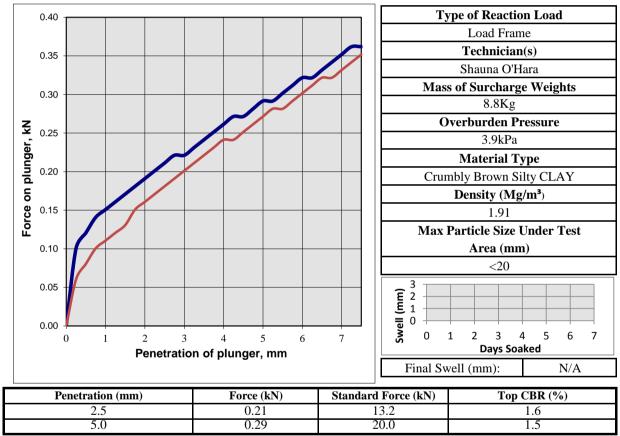
LABORATORY TEST REPORT

DETERMINATION OF CALIFORNIA BEARING RATIO - BS 1377 : Part 4 : 1990

Project :	Burlow Rd, Buxton - Site B	Job No.	n/a
Client :	ALM Consult	Lab Ref No	SA30854
		Date Received	29/08/2017
		Date Tested	12/09/2017
		Date Reported	18/09/2017
0	TZ - '41		

Originator : Keith

Location : TB112



Penetration (mm)	Force (kN)	Standard Force (kN)	Bottom CBR (%)
2.5	0.18	13.2	1.4
5.0	0.27	20.0	1.4
Moisture content : 27%		Mean Insitu CBR	value : 1.5%

Moisture content determined in accordance with BS 1377 : Part 2 : 1990 - oven drying method

CBR determined in accordance with BS 1377 : Part 4 : 1990

K.Monks

Approved Signature

James Fisher Testing Services

□ Karl Monks, Acting Lab Team Leader



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R70 R2 WTN



Ruby House, 40A Hardwick Grange

40A Hardwick Grange Warrington, WA1 4RF

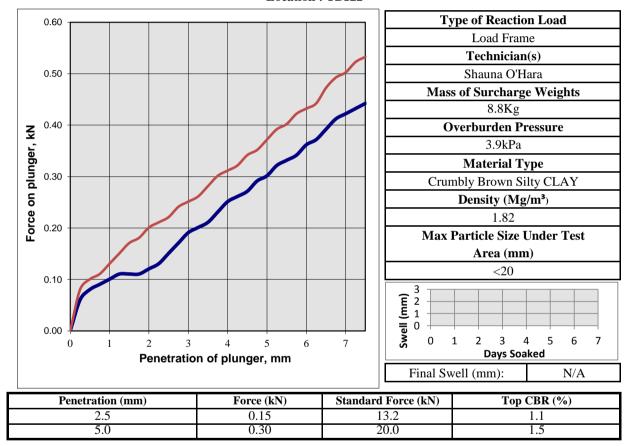


LABORATORY TEST REPORT

DETERMINATION OF CALIFORNIA BEARING RATIO - BS 1377 : Part 4 : 1990

Project :	Burlow Rd, Buxton - Site B	Job No.	n/a
Client :	ALM Consult	Lab Ref No	SA30854
		Date Received	29/08/2017
		Date Tested	12/09/2017
		Date Reported	18/09/2017
Originato	r : Keith		

Location : TB122



Penetration (mm)	Force (kN)	Standard Force (kN)	Bottom CBR (%)
2.5	0.22	13.2	1.7
5.0	0.37	20.0	1.9
Moisture content : 32%		Mean Insitu CBR	value : 1.6%

Moisture content determined in accordance with BS 1377 : Part 2 : 1990 - oven drying method

CBR determined in accordance with BS 1377 : Part 4 : 1990

S.Monks

Approved Signature

James Fisher Testing Services

Garl Monks, Acting Lab Team Leader



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R70 R2 WTN



Appendix J(3)

In Situ Soakaway Test Results ALM (2017) Investigation

SOIL INFILTRATION RATE IN ACCORDANCE WITH BRE DIGEST 365: 1991

25%

rratt Homes Manchester
rlow Road, Buxton - SITE B
156

Trial Pit No.	SAB1
Test No.	1

	-	-	
Time	Elpsed		vater form
	Time	groun	d level
	(min)	(m)	(mm)
	0	1.48	1480
	1	1.50	1500



SOAKAWAY TRIAL PIT				
Dimensions	(m)	(mm)		
Length =	1.80	1800		
Width =	0.70	700		
Depth =	1.50	1500		
Effective Depth (empty)	mm	m		
75% =	1495.00	1.495		
50% =	1490.00	1.49		

1480
1500

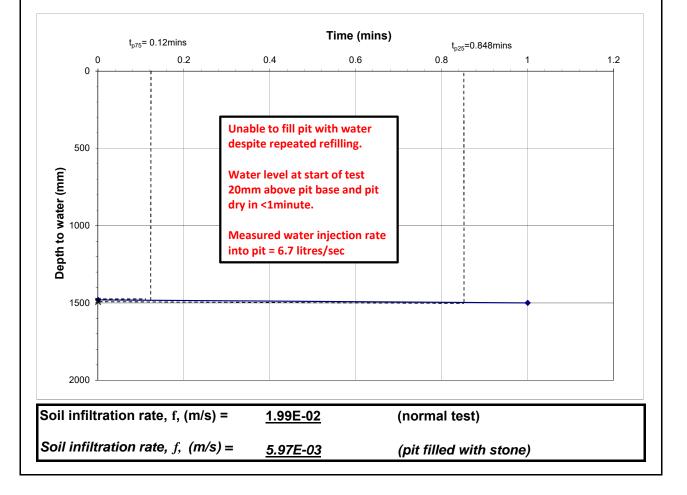
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Base area of pit	=	1.26
a_{p50} - 50% internal surface area inc. base	=	-0.515
V _{p75-25} - Volume 75 - 25%	=	-0.4473

1485.00

1.85

Read from the graph:			
t _{p 75} (min)	=	0.12	
t _{p 25} (min)	=	0.848	



SOIL INFILTRATION RATE IN ACCORDANCE WITH BRE DIGEST 365: 1991

Client:	Barratt Homes Manchester
Job Name:	Burlow Road, Buxton - SITE B
Job No.:	30156

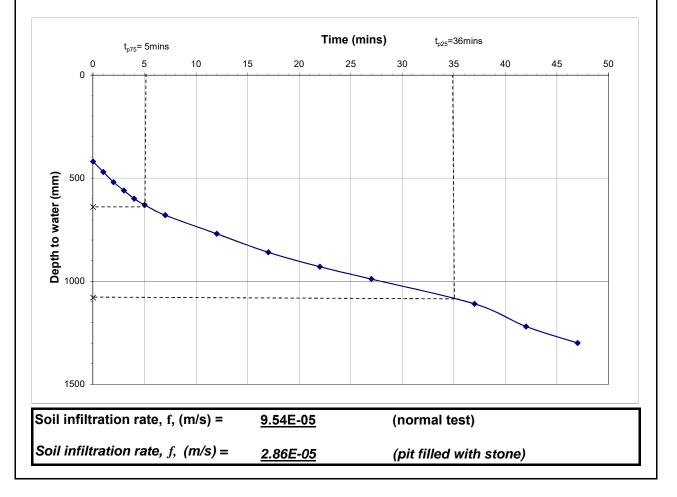
Trial Pit No.	SAB2
Test No.	1

Time	Elpsed	Depth to water form	
	Time	ground level	
	(min)	(m)	(mm)
	0	0.42	420
	1	0.47	470
	2	0.52	520
	3	0.56	560
	4	0.60	600
	5	0.63	630
	7	0.68	680
	12	0.77	770
	17	0.86	860
	22	0.93	930
	27	0.99	990
	37	1.11	1110
	42	1.22	1220
	47	1.30	1300



sc				
Dimensi	ons	(m)	(mm)	
Length	=	2.10	2100	
Width	=	0.77	770	
Depth	=	1.30	1300	
				-
Effective Dept	h (empty)	mm	m	
75%	=	1080.00	1.08	
50%	=	860.00	0.86	
25%	=	640.00	0.64	
				_
Depth at start of	test (mm)	=	420	
Depth at end of	test (mm)	=	1300	
				•
Base area of pit			=	1.617
a_{p50} - 50% internal	surface area i	nc. base	=	4.1426
V_{p75-25} - Volume	75 - 25%		=	0.71148

Read from the graph:			
=	5		
=	35		
	from the gra = =		



SOIL INFILTRATION RATE IN ACCORDANCE WITH BRE DIGEST 365: 1991

Client:	Barratt Homes Manchester
Job Name:	Burlow Road, Buxton - SITE B
Job No.:	30156

Trial Pit No.	SAB2
Test No.	2

Time	Elpsed	Depth to water form	
	Time	ground level	
	(min)	(m)	(mm)
	0	0.38	380
	1	0.44	440
	2	0.50	500
	3	0.55	550
	4	0.60	600
	5	0.64	640
	6	0.67	670
	7	0.71	710
	8	0.75	750
	10	0.80	800
	15	0.87	870
	20	0.92	920
	25	0.98	980
	30	1.04	1040
	40	1.12	1120
	50	1.19	1190
	60	1.25	1250
	70	1.30	1300



SOAKAWAY TRIAL PIT			
Dime	nsions	(m)	(mm)
Length	=	2.10	2100
Width	=	0.77	770
Depth	=	1.30	1300

Effective depth (em	pty) mm	m
75% =	1070.00	1.07
50% =	840.00	0.84
25% =	610.00	0.61

Depth at start of test (mm)	=	574
Depth at end of test (mm)	=	1022

Base area of pit	=	1.617
a_{p50} - 50% internal surface area inc. base	=	4.2574
V_{p75-25} - Volume 75 - 25%	=	0.74382

Read from the graph:				
t _{p 75} (min)	=	4.5		
t _{p 25} (min)	=	34		

