



OAKLAND
site investigation

Job Reference:

Site Address: Reading University

Client: CGL

Date: 22.02.2024

In-Situ CBR No. CBR111

Depth (m): 1.15

Ring Number: 15060

Ring Factor: 9.2064

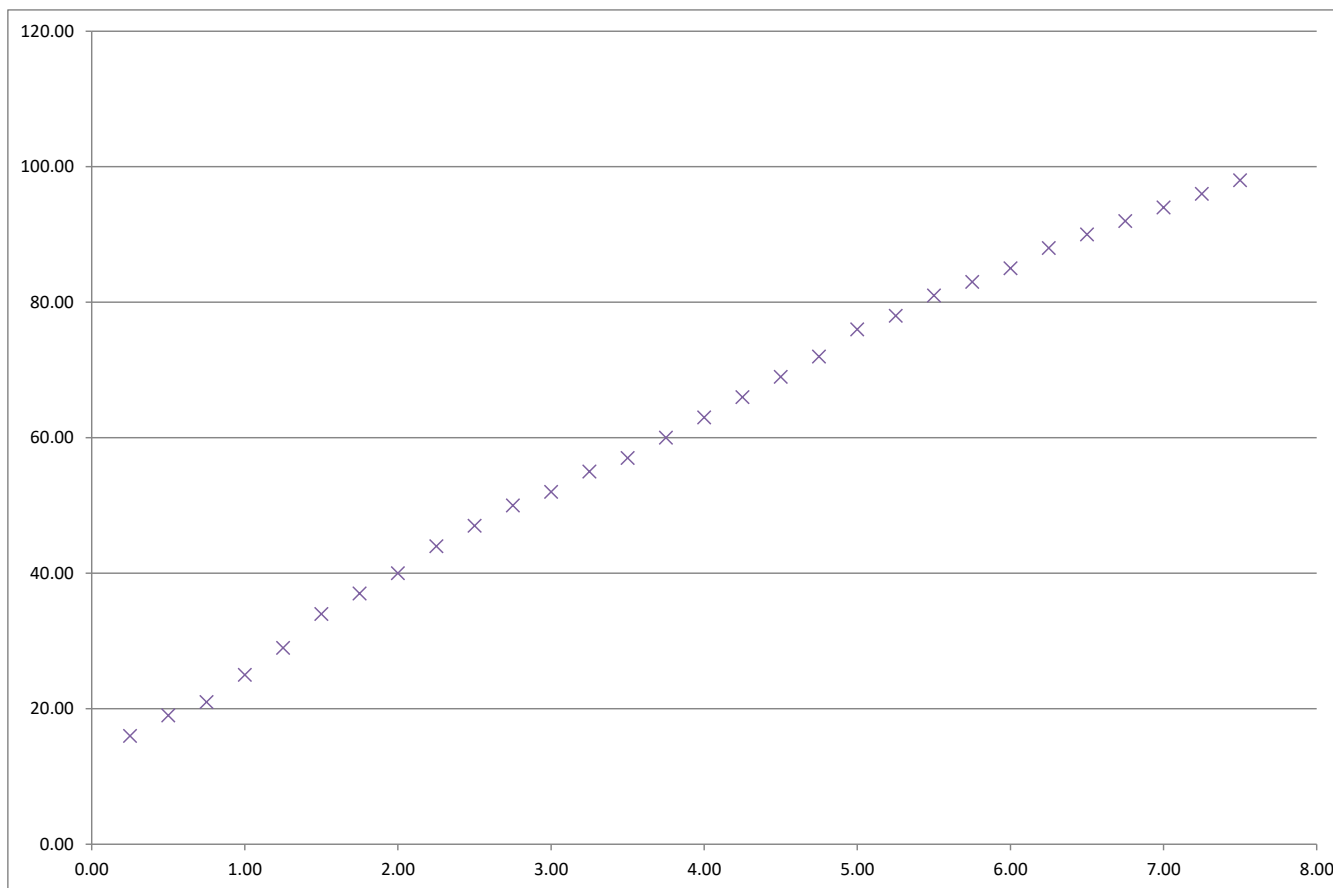
Natural Moisture Content (%): 9.9

CBR Value at 2.5mm Penetration (%) 3.3

CBR Value at 5.0mm Penetration (%) 3.5

Accepted CBR Value (%) 3.5

Penetration (mm)	Dial Gauge Reading
0.25	16
0.50	19
0.75	21
1.00	25
1.25	29
1.50	34
1.75	37
2.00	40
2.25	44
2.50	47
2.75	50
3.00	52
3.25	55
3.50	57
3.75	60
4.00	63
4.25	66
4.50	69
4.75	72
5.00	76
5.25	78
5.50	81
5.75	83
6.00	85
6.25	88
6.50	90
6.75	92
7.00	94
7.25	96
7.50	98



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Registered Office Address: Unit 13, Firslan Park Estate, Henfield Road, Albourne, BN6 9JJ



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site investigation

Job Reference:

Site Address: Reading University

Client: CGL

Date: 22.02.2024

In-Situ CBR No. CBR105

Depth (m): 1.15

Ring Number: 15060

Ring Factor: 9.2064

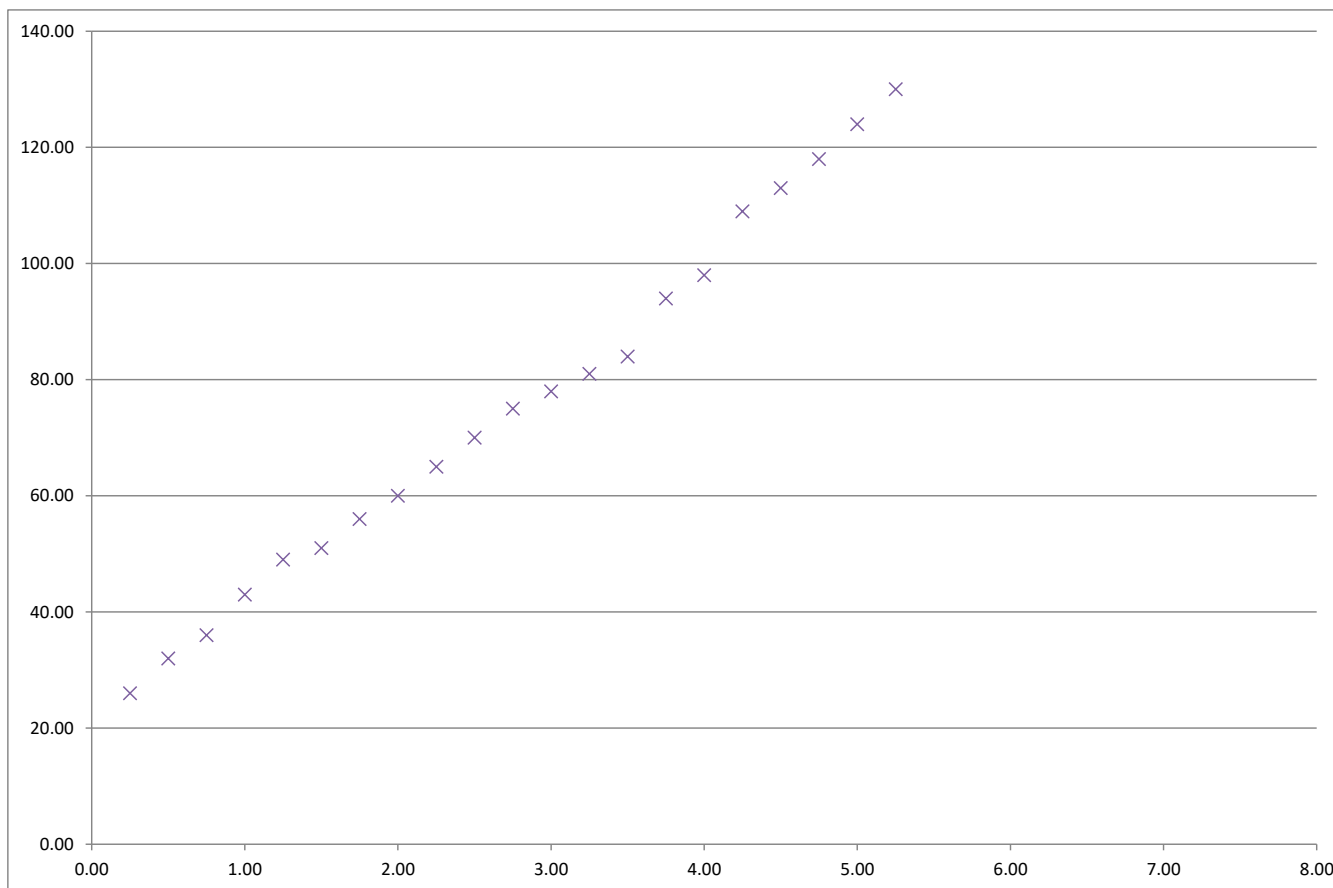
Natural Moisture Content (%): 27.9

CBR Value at 2.5mm Penetration (%) 4.9

CBR Value at 5.0mm Penetration (%) 5.7

Accepted CBR Value (%) 5.7

Penetration (mm)	Dial Gauge Reading
0.25	26
0.50	32
0.75	36
1.00	43
1.25	49
1.50	51
1.75	56
2.00	60
2.25	65
2.50	70
2.75	75
3.00	78
3.25	81
3.50	84
3.75	94
4.00	98
4.25	109
4.50	113
4.75	118
5.00	124
5.25	130
5.50	
5.75	
6.00	
6.25	
6.50	
6.75	
7.00	
7.25	
7.50	



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Job Reference:
Site Address: Reading University
Client: CGL
Date: 22.02.2024

In-Situ CBR No. CBR103
Depth (m): 1.15

Ring Number: 15060

Ring Factor: 9.2064

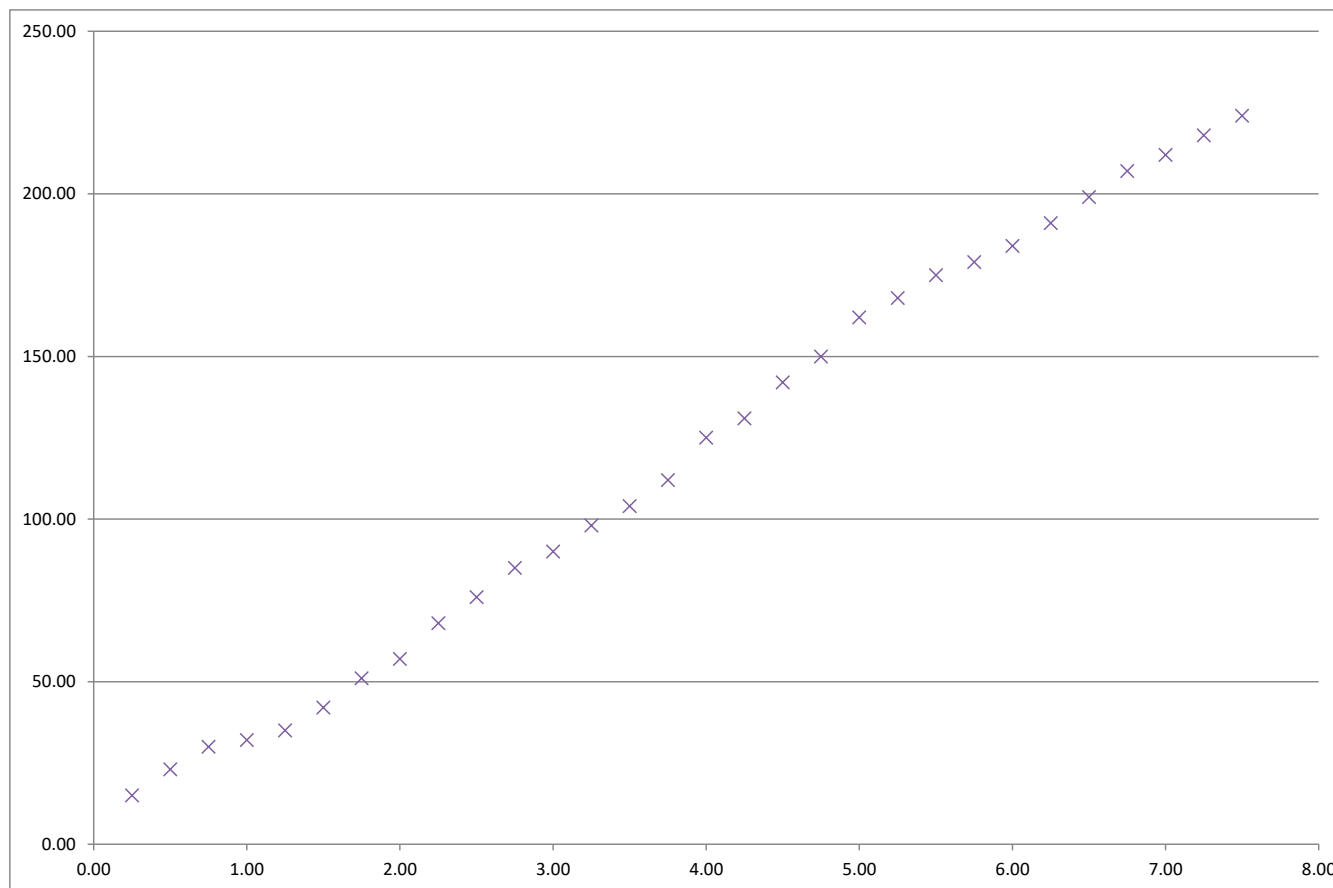
Natural Moisture Content (%): 11.3

CBR Value at 2.5mm Penetration (%) 5.3

CBR Value at 5.0mm Penetration (%) 7.5

Accepted CBR Value (%) 7.5

Penetration (mm)	Dial Gauge Reading
0.25	15
0.50	23
0.75	30
1.00	32
1.25	35
1.50	42
1.75	51
2.00	57
2.25	68
2.50	76
2.75	85
3.00	90
3.25	98
3.50	104
3.75	112
4.00	125
4.25	131
4.50	142
4.75	150
5.00	162
5.25	168
5.50	175
5.75	179
6.00	184
6.25	191
6.50	199
6.75	207
7.00	212
7.25	218
7.50	224



Appendix C – Surface Water Modelling Results

ECMWF: Proposed SW Drainage Network Car Park + Eastern Road Catchment	Date: 07/08/2025		
	Designed by: COB	Checked by: LJ	Approved By: CHF
Report Details: Type: Inflows Storm Phase: Catchment 4 (Car Park and Eastern	Company: BDP		





HS.20

Type : Catchment Area

Area (ha)	0.005
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	95



HS.21

Type : Catchment Area

Area (ha)	0.039
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	95



HS.02

Type : Catchment Area

Area (ha)	0.048
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	95



HS.18

Type : Catchment Area

Area (ha)	0.041
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100

ECMWF: Proposed SW Drainage Network Car Park + Eastern Road Catchment	Date: 07/08/2025		
	Designed by: COB	Checked by: LJ	Approved By: CHF
Report Details: Type: Inflows Storm Phase: Catchment 4 (Car Park and Eastern	Company: BDP		





HS.23

Type : Catchment Area

Area (ha)	0.021
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	95



HS.19

Type : Catchment Area

Area (ha)	0.012
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	95



HS.17

Type : Catchment Area

Area (ha)	0.04
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	95



HS.01

Type : Catchment Area

Area (ha)	0.02
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	95