

TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172034.1.1.3		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Marc Hawkins	SITE:	Havant, Portsmouth
LOCATION:	K2 Sub Formation	MATERIAL:	Crushed aggregate
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Not Specified
TEST METHOD:	Incremental Plate Loading	SOURCE:	Not Specified
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

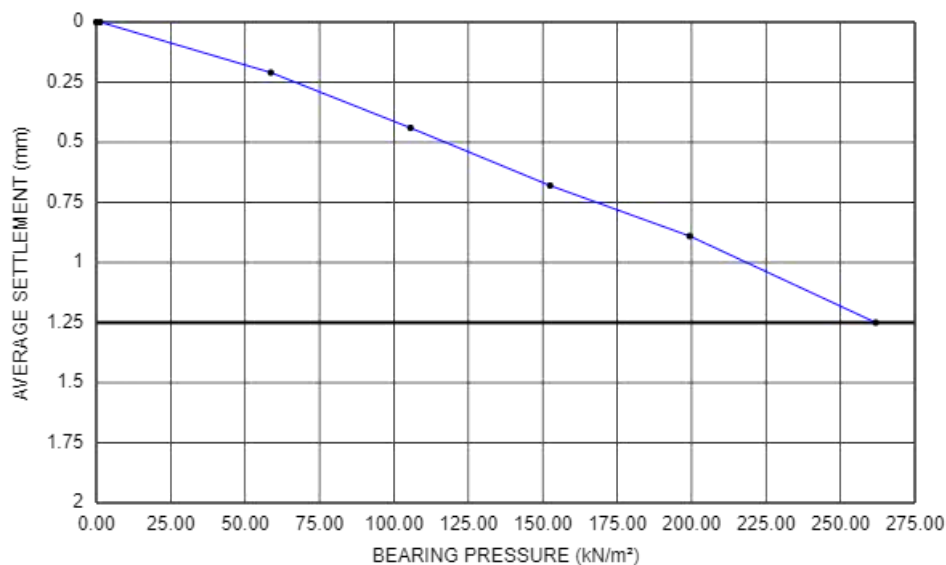
Equipment Details

Type of Kentledge: 22 Ton Excavator
 Plate Diameter: 604 mm
 Plate Area: 0.286526 m²
 Plate Correction: 0.81

Results

Max applied pressure: 262 kN/m²
 Max settlement: 1.25 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: > 262 kN/m²
 Modulus of subgrade K762: > 170 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: > 70.4%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: > 70.4 %

Remarks:

Test results reported relate only to the items tested.
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 Jack maxed

TEST REPORT:
Determination of Equivalent CBR Value

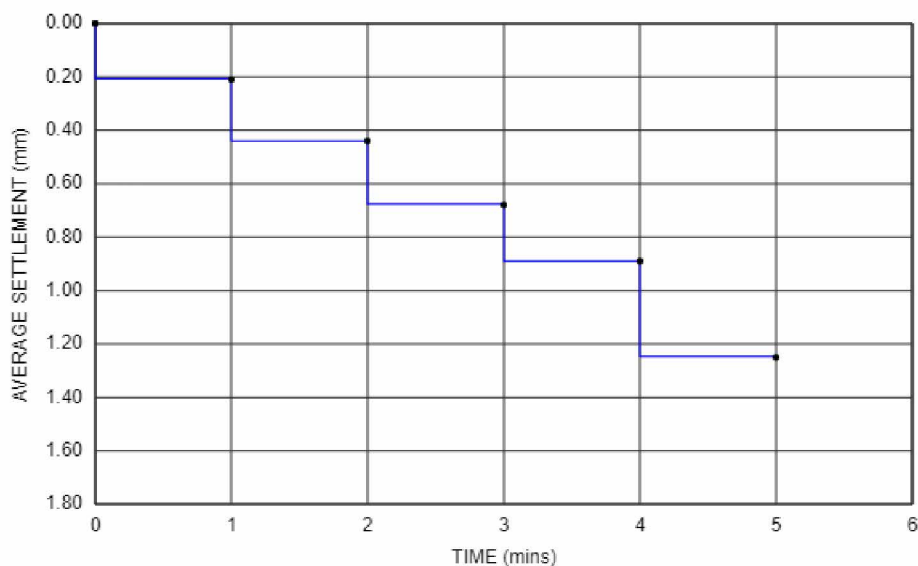
In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

REPORT NUMBER:

C1055642 / 172034.1.1.3

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.4	1.3	21.74	20.82	20.72	0.00	0.00	0.00	0.00
16.8	58.6	21.50	20.58	20.58	0.24	0.24	0.14	0.21
30.2	105.5	21.14	20.30	20.52	0.60	0.52	0.20	0.44
43.7	152.4	20.81	20.03	20.41	0.93	0.79	0.31	0.68
57.1	199.3	20.56	19.78	20.27	1.18	1.04	0.45	0.89
75.0	261.9	20.06	19.45	20.03	1.68	1.37	0.69	1.25

SETTLEMENT RELATIONSHIP vs TIME

Remarks:

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Jack maxed

For and on behalf of CTS

Harry Dorling - Operations Supervisor



Approved Signatory

Report date 17-Feb-22



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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172034.1.1.4		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Marc Hawkins	SITE:	Havant, Portsmouth
LOCATION:	H3 Sub Formation	MATERIAL:	Crushed aggregate
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Not Specified
TEST METHOD:	Incremental Plate Loading	SOURCE:	Not Specified
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

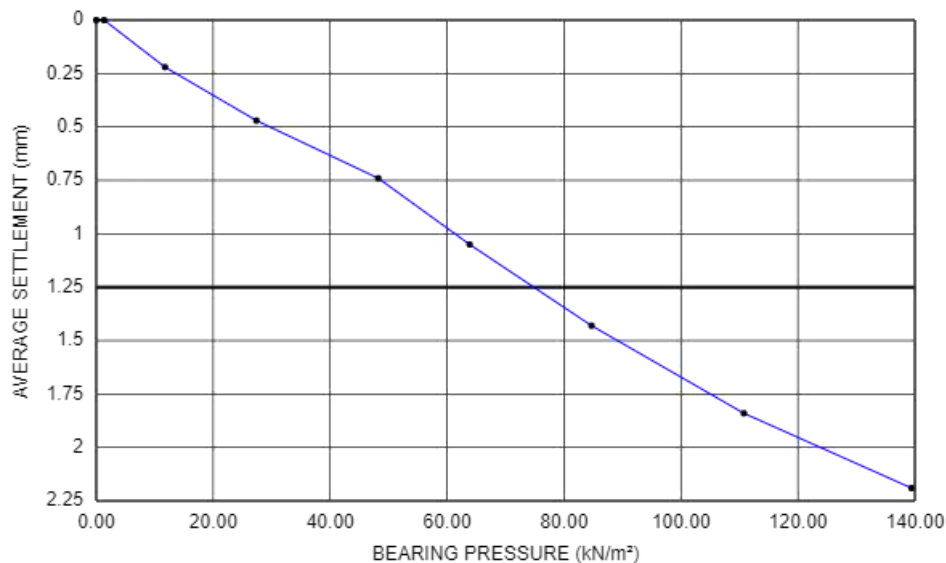
Equipment Details

Type of Kentledge: 22 Ton Excavator
 Plate Diameter: 604 mm
 Plate Area: 0.286526 m²
 Plate Correction: 0.81

Results

Max applied pressure: 139 kN/m²
 Max settlement: 2.19 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 75 kN/m²
 Modulus of subgrade K762: 48 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 8.0%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 8.0 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

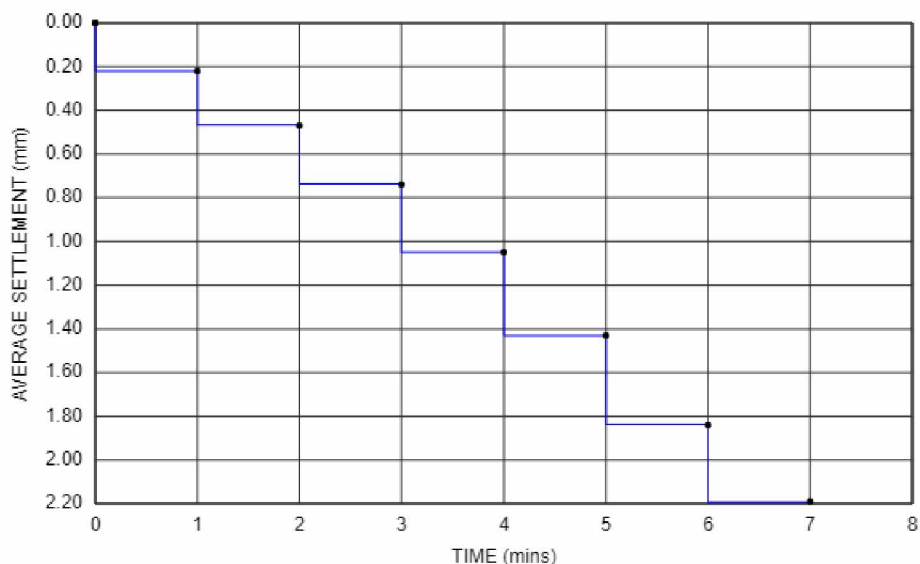
REPORT NUMBER:

C1055642 / 172034.1.1.4

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.4	1.3	20.62	20.58	20.71	0.00	0.00	0.00	0.00
3.4	11.8	20.62	20.30	20.33	0.00	0.28	0.38	0.22
7.8	27.4	20.53	20.04	19.94	0.09	0.54	0.77	0.47
13.8	48.2	20.26	19.79	19.65	0.36	0.79	1.06	0.74
18.3	63.9	19.91	19.52	19.33	0.71	1.06	1.38	1.05
24.3	84.7	19.48	19.21	18.93	1.14	1.37	1.78	1.43
31.7	110.8	18.99	18.85	18.56	1.63	1.73	2.15	1.84
39.9	139.4	18.62	18.55	18.16	2.00	2.03	2.55	2.19

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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For and on behalf of CTS

Harry Dorling - Operations Supervisor



Approved Signatory

Report date 17-Feb-22



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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172034.1.1.5		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Marc Hawkins	SITE:	Havant, Portsmouth
LOCATION:	J3 Sub Formation	MATERIAL:	Crushed aggregate
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Not Specified
TEST METHOD:	Incremental Plate Loading	SOURCE:	Not Specified
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

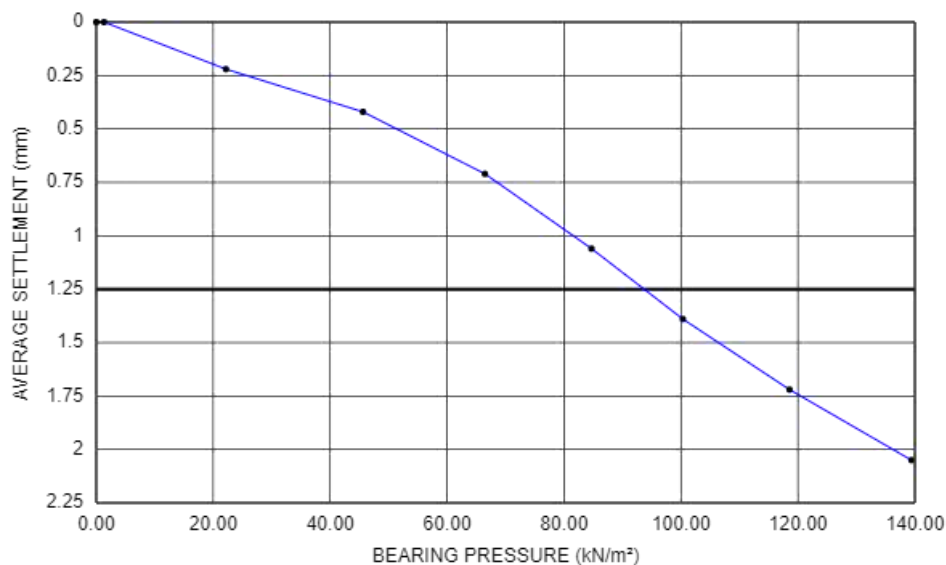
Equipment Details

Type of Kentledge: 22 Ton Excavator
 Plate Diameter: 604 mm
 Plate Area: 0.286526 m²
 Plate Correction: 0.81

Results

Max applied pressure: 139 kN/m²
 Max settlement: 2.05 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 94 kN/m²
 Modulus of subgrade K762: 61 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 11.9%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 11.9 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

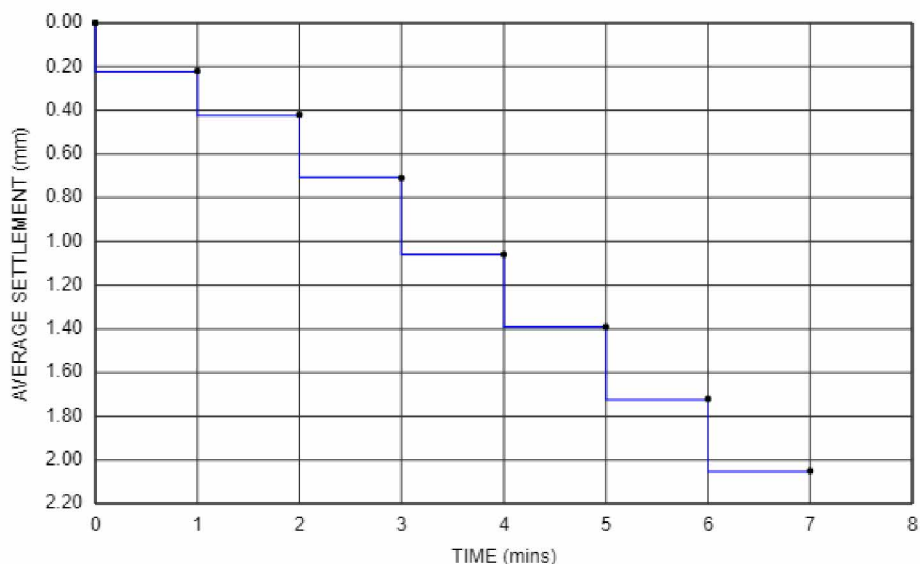
REPORT NUMBER:

C1055642 / 172034.1.1.5

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.4	1.3	19.58	20.40	17.16	0.00	0.00	0.00	0.00
6.4	22.2	19.58	20.10	16.79	0.00	0.30	0.37	0.22
13.1	45.6	19.54	19.84	16.49	0.04	0.56	0.67	0.42
19.0	66.5	19.40	19.57	16.05	0.18	0.83	1.11	0.71
24.3	84.7	19.08	19.25	15.63	0.50	1.15	1.53	1.06
28.7	100.3	18.74	18.92	15.31	0.84	1.48	1.85	1.39
34.0	118.6	18.42	18.60	14.95	1.16	1.80	2.21	1.72
39.9	139.4	18.04	18.28	14.66	1.54	2.12	2.50	2.05

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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For and on behalf of CTS

Harry Dorling - Operations Supervisor



Approved Signatory

Report date 17-Feb-22



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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172034.1.1.6		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Marc Hawkins	SITE:	Havant, Portsmouth
LOCATION:	K3 Sub Formation	MATERIAL:	Crushed aggregate
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Not Specified
TEST METHOD:	Incremental Plate Loading	SOURCE:	Not Specified
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

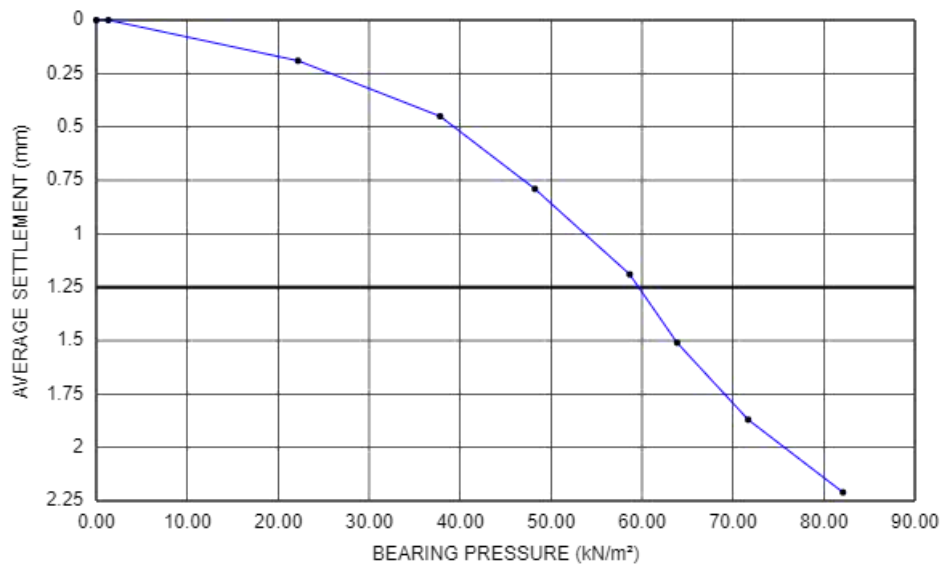
Equipment Details

Type of Kentledge: 22 Ton Excavator
 Plate Diameter: 604 mm
 Plate Area: 0.286526 m²
 Plate Correction: 0.81

Results

Max applied pressure: 82 kN/m²
 Max settlement: 2.21 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 60 kN/m²
 Modulus of subgrade K762: 39 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 5.4%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 5.4 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

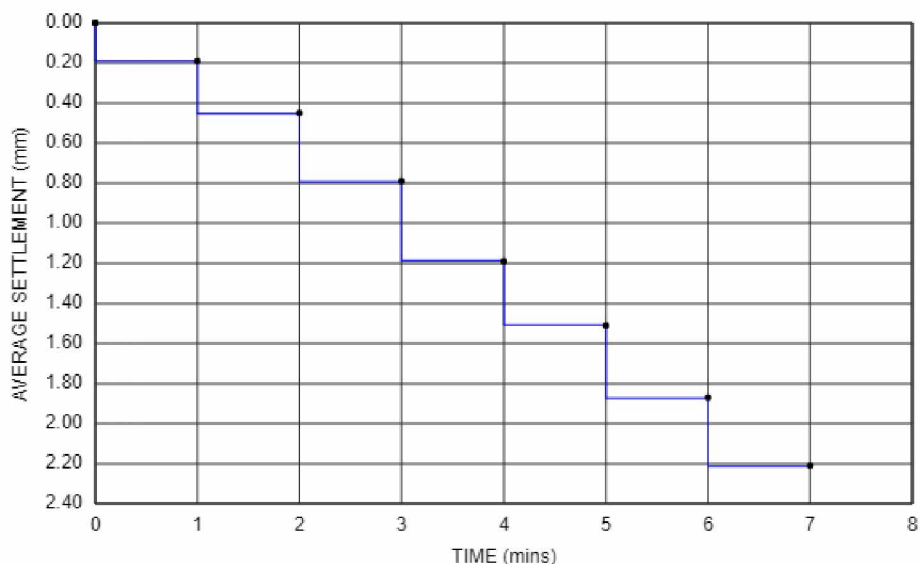
REPORT NUMBER:

C1055642 / 172034.1.1.6

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.4	1.3	19.73	17.30	20.51	0.00	0.00	0.00	0.00
6.4	22.2	19.52	17.04	20.41	0.21	0.26	0.10	0.19
10.8	37.8	19.16	16.74	20.28	0.57	0.56	0.23	0.45
13.8	48.2	18.56	16.36	20.24	1.17	0.94	0.27	0.79
16.8	58.6	17.93	15.95	20.10	1.80	1.35	0.41	1.19
18.3	63.9	17.40	15.60	20.02	2.33	1.70	0.49	1.51
20.5	71.7	16.85	15.24	19.83	2.88	2.06	0.68	1.87
23.5	82.1	16.35	14.85	19.70	3.38	2.45	0.81	2.21

SETTLEMENT RELATIONSHIP vs TIME



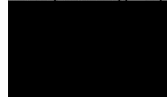
Remarks:

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For and on behalf of CTS

Harry Dorling - Operations Supervisor



Approved Signatory

Report date 17-Feb-22



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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172034.1.1.7		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Marc Hawkins	SITE:	Havant, Portsmouth
LOCATION:	H4 Sub Base	MATERIAL:	Crushed aggregate
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Not Specified
TEST METHOD:	Incremental Plate Loading	SOURCE:	Not Specified
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

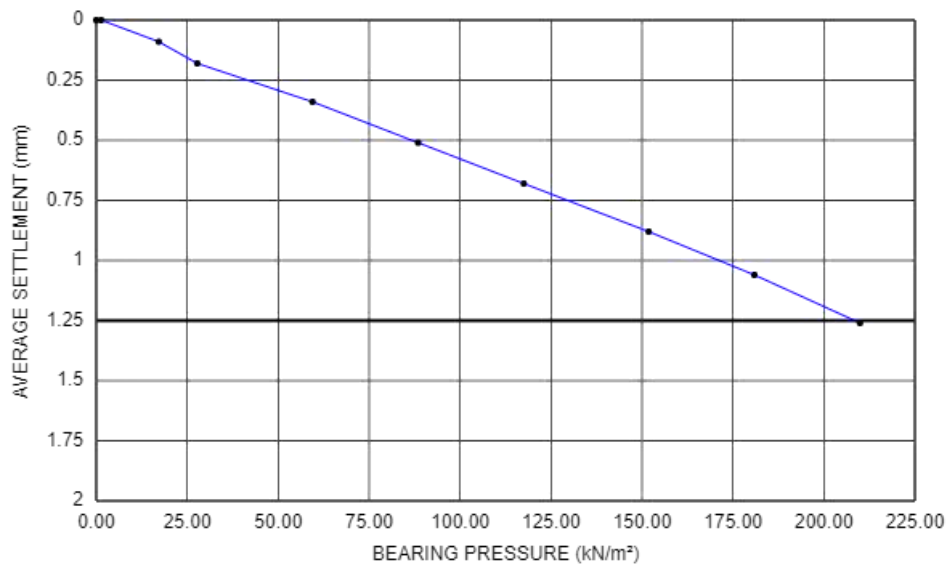
Equipment Details

Type of Kentledge: 22 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 210 kN/m²
 Max settlement: 1.26 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 208 kN/m²
 Modulus of subgrade K762: 134 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 46.7%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 46.7 %

Remarks:

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 Lifted machine at 360 bar

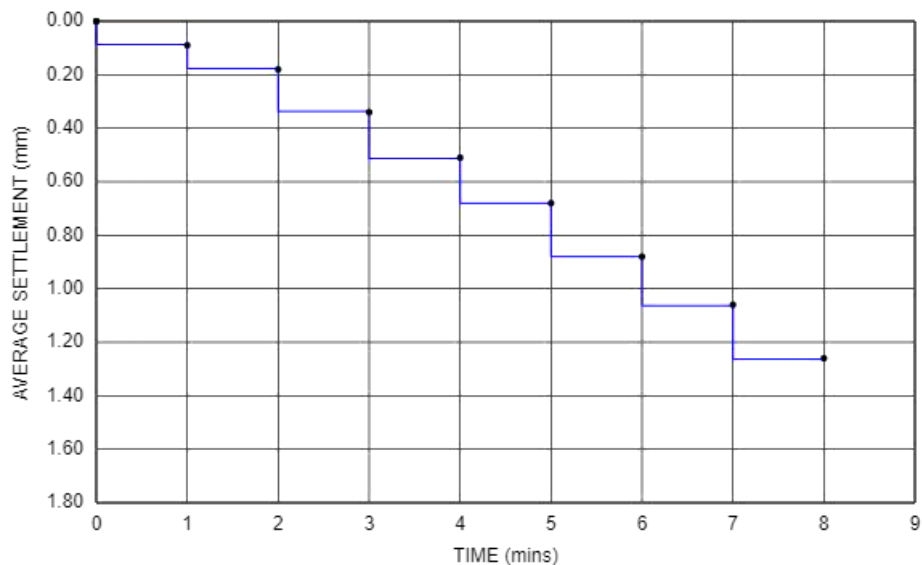
TEST REPORT: Determination of Equivalent CBR Value
In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

REPORT NUMBER: C1055642 / 172034.1.1.7

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.4	1.3	20.43	21.80	20.74	0.00	0.00	0.00	0.00
4.9	17.2	20.43	21.54	20.74	0.00	0.26	0.00	0.09
7.8	27.8	20.40	21.30	20.74	0.03	0.50	0.00	0.18
16.8	59.4	20.32	21.03	20.61	0.11	0.77	0.13	0.34
25.0	88.5	20.14	20.75	20.54	0.29	1.05	0.20	0.51
33.2	117.5	19.96	20.48	20.49	0.47	1.32	0.25	0.68
42.9	151.8	19.75	20.17	20.41	0.68	1.63	0.33	0.88
51.1	180.9	19.62	19.84	20.32	0.81	1.96	0.42	1.06
59.4	209.9	19.46	19.52	20.20	0.97	2.28	0.54	1.26

SETTLEMENT RELATIONSHIP vs TIME



Remarks:
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Lifted machine at 360 bar

For and on behalf of CTS
Vincent Faulkner - Operations Supervisor



Approved Signatory
Report date 17-Feb-22



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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172110.1.1.1		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	J4 Sub Formation	MATERIAL:	Type 1 - Crushed rock
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

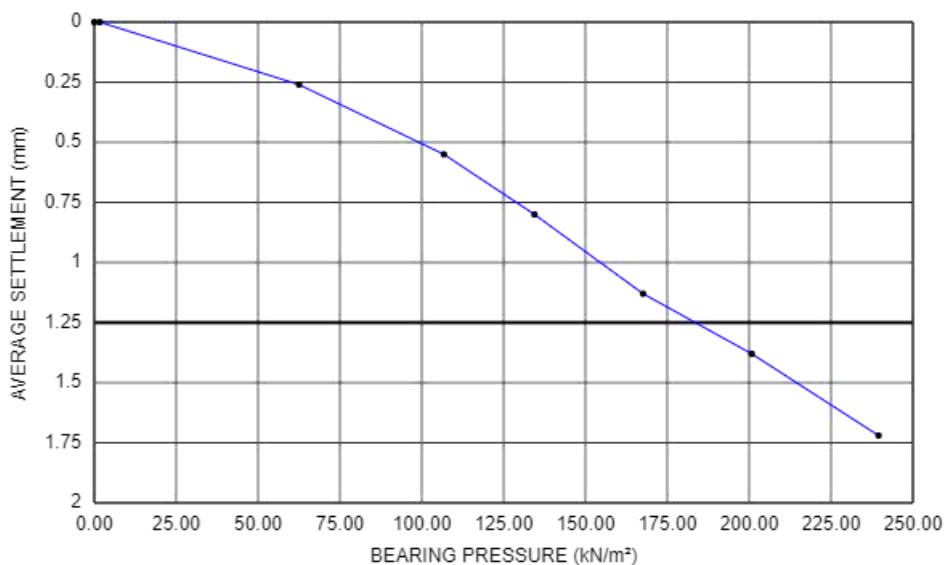
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 240 kN/m²
 Max settlement: 1.72 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 183 kN/m²
 Modulus of subgrade K762: 118 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 37.6%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 37.6 %

Remarks:

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 Jack could not push any further, test stopped at 430 bar.

TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

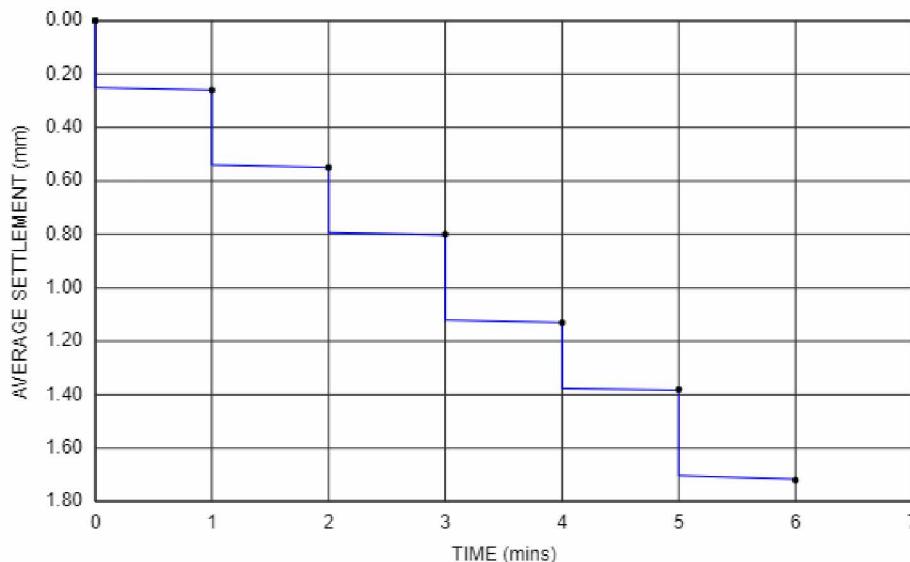
REPORT NUMBER:

C1055642 / 172110.1.1.1

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17.7	62.5	-0.19	-0.30	-0.29	0.19	0.30	0.29	0.26
30.2	106.8	-0.50	-0.58	-0.57	0.50	0.58	0.57	0.55
38.0	134.4	-0.84	-0.80	-0.77	0.84	0.80	0.77	0.80
47.4	167.6	-1.19	-1.14	-1.06	1.19	1.14	1.06	1.13
56.8	200.8	-1.40	-1.39	-1.36	1.40	1.39	1.36	1.38
67.7	239.5	-1.74	-1.71	-1.70	1.74	1.71	1.70	1.72

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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Jack could not push any further, test stopped at 430 bar.

For and on behalf of CTS

Vincent Faulkner - Operations Supervisor

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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172110.1.1.2		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	J5 Sub Formation Layer	MATERIAL:	Type 1 - Crushed rock
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

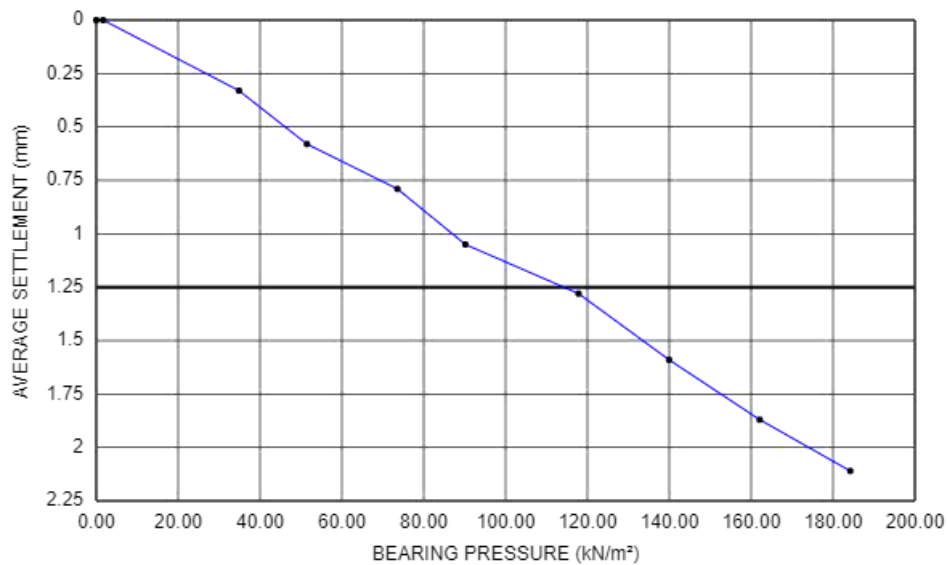
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 184 kN/m²
 Max settlement: 2.11 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 114 kN/m²
 Modulus of subgrade K762: 74 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 16.6%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 16.6 %

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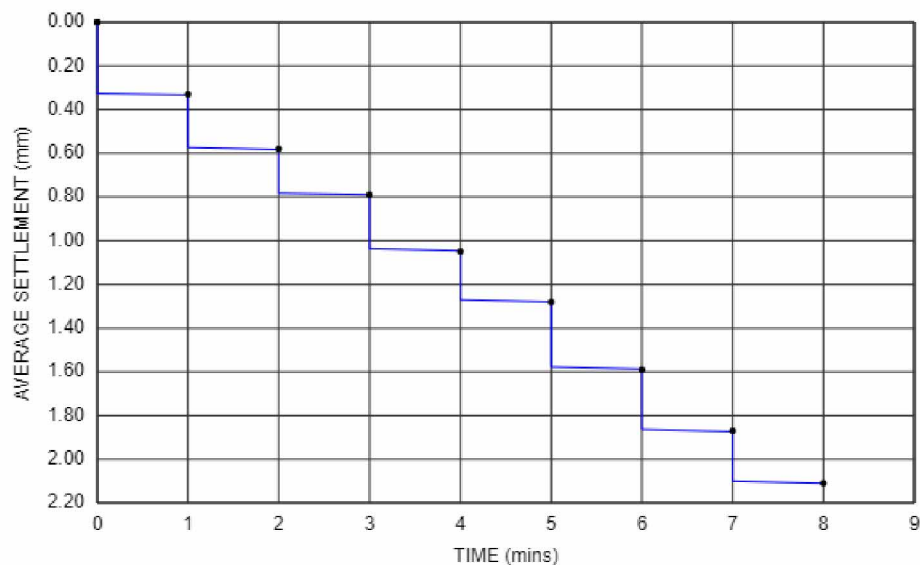
REPORT NUMBER:

C1055642 / 172110.1.1.2

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.9	34.9	-0.32	-0.38	-0.30	0.32	0.38	0.30	0.33
14.5	51.5	-0.59	-0.61	-0.55	0.59	0.61	0.55	0.58
20.8	73.6	-0.79	-0.81	-0.77	0.79	0.81	0.77	0.79
25.5	90.2	-1.12	-1.04	-0.98	1.12	1.04	0.98	1.05
33.3	117.8	-1.32	-1.30	-1.22	1.32	1.30	1.22	1.28
39.6	140.0	-1.61	-1.65	-1.50	1.61	1.65	1.50	1.59
45.8	162.1	-1.83	-1.92	-1.87	1.83	1.92	1.87	1.87
52.1	184.2	-2.09	-2.18	-2.06	2.09	2.18	2.06	2.11

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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Vincent Faulkner - Operations Supervisor

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Report date 17-Feb-22



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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172110.1.1.3		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	H5 Sub Formation Layer	MATERIAL:	Type 1 - Crushed rock
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

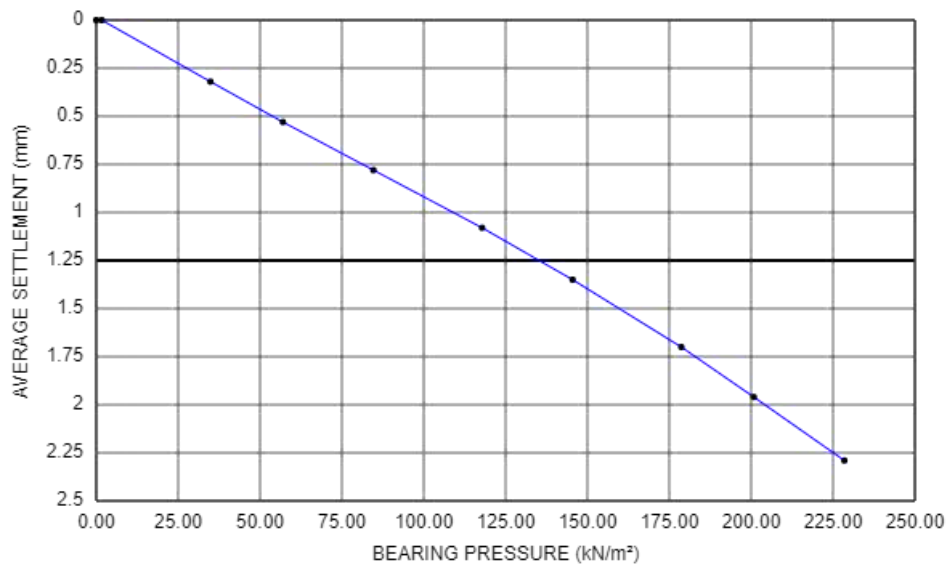
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 228 kN/m²
 Max settlement: 2.29 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 135 kN/m²
 Modulus of subgrade K762: 87 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 22.1%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 22.1 %

Remarks:

Test results reported relate only to the items tested.
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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

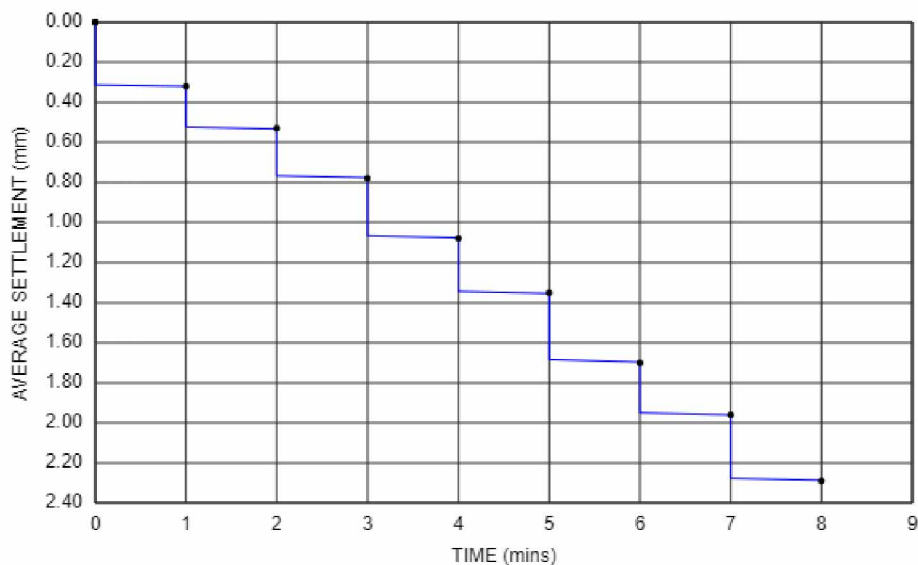
REPORT NUMBER:

C1055642 / 172110.1.1.3

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.9	34.9	-0.35	-0.33	-0.28	0.35	0.33	0.28	0.32
16.1	57.0	-0.59	-0.51	-0.50	0.59	0.51	0.50	0.53
23.9	84.6	-0.90	-0.74	-0.69	0.90	0.74	0.69	0.78
33.3	117.8	-1.28	-0.99	-0.96	1.28	0.99	0.96	1.08
41.1	145.5	-1.64	-1.22	-1.20	1.64	1.22	1.20	1.35
50.5	178.7	-1.95	-1.62	-1.52	1.95	1.62	1.52	1.70
56.8	200.8	-2.22	-1.87	-1.79	2.22	1.87	1.79	1.96
64.6	228.5	-2.60	-2.19	-2.07	2.60	2.19	2.07	2.29

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

Test results reported relate only to the items tested.

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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172110.1.1.4		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	H6 Sub Formation Layer	MATERIAL:	Type 1 - Crushed rock
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

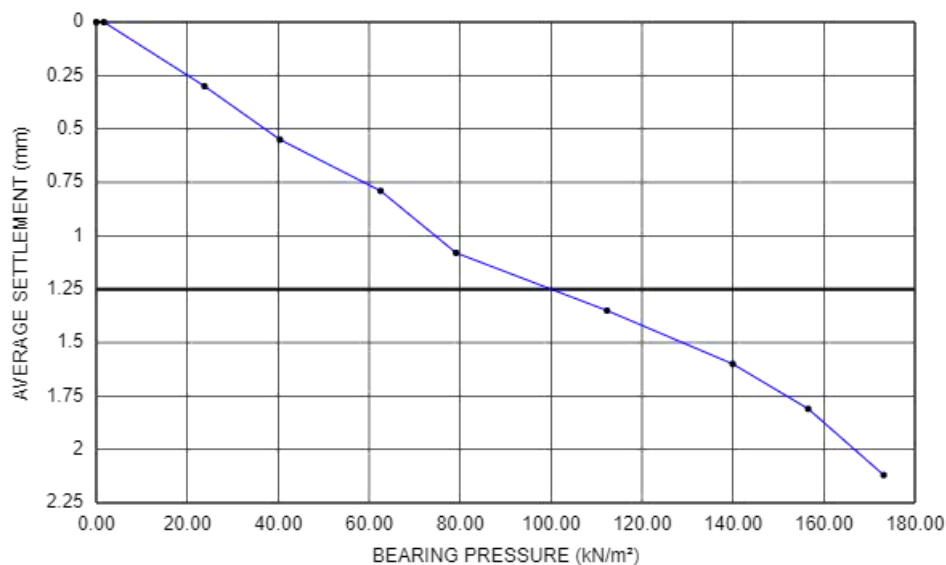
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 173 kN/m²
 Max settlement: 2.12 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 100 kN/m²
 Modulus of subgrade K762: 64 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 13.2%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 13.2 %

Remarks:

Test results reported relate only to the items tested.
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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

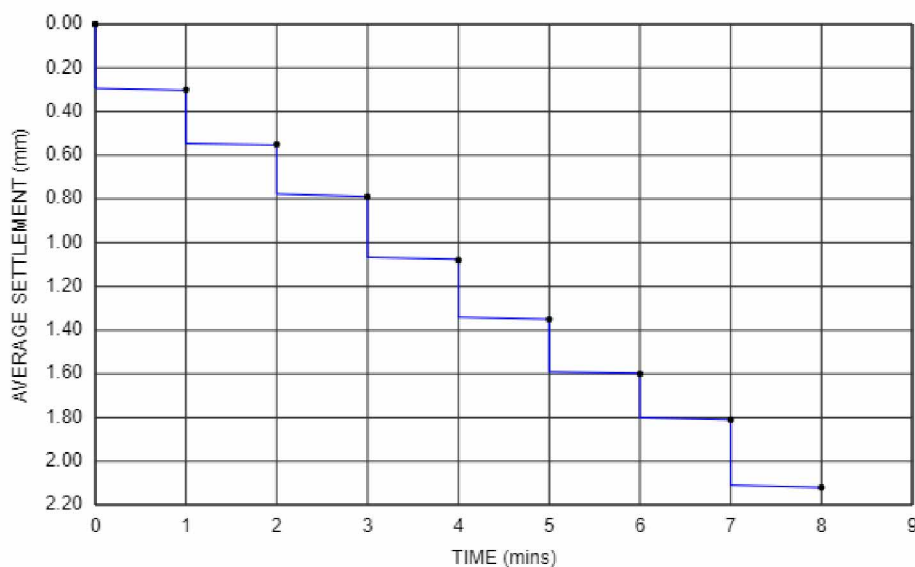
REPORT NUMBER:

C1055642 / 172110.1.1.4

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.7	23.8	-0.28	-0.39	-0.24	0.28	0.39	0.24	0.30
11.4	40.4	-0.54	-0.64	-0.48	0.54	0.64	0.48	0.55
17.7	62.5	-0.81	-0.85	-0.71	0.81	0.85	0.71	0.79
22.4	79.1	-1.07	-1.17	-0.99	1.07	1.17	0.99	1.08
31.8	112.3	-1.34	-1.49	-1.22	1.34	1.49	1.22	1.35
39.6	140.0	-1.59	-1.72	-1.48	1.59	1.72	1.48	1.60
44.3	156.6	-1.80	-1.96	-1.67	1.80	1.96	1.67	1.81
49.0	173.1	-2.10	-2.28	-1.98	2.10	2.28	1.98	2.12

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

Test results reported relate only to the items tested.

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For and on behalf of CTS

Vincent Faulkner - Operations Supervisor



Approved Signatory

Report date 17-Feb-22



0927

TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172110.1.1.5		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	J6 Sub Formation Layer	MATERIAL:	Type 1 - Crushed rock
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

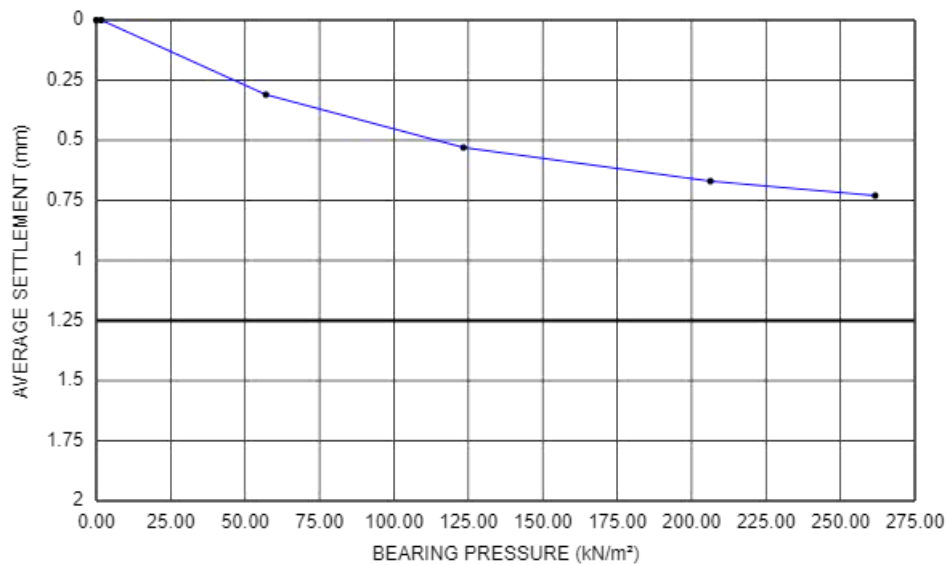
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 262 kN/m²
 Max settlement: 0.73 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: > 262 kN/m²
 Modulus of subgrade K762: > 168 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: > 69.6%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: > 69.6 %

Remarks:

Test results reported relate only to the items tested.
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 Jack maxed out could not continue test at 470 bar.

TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

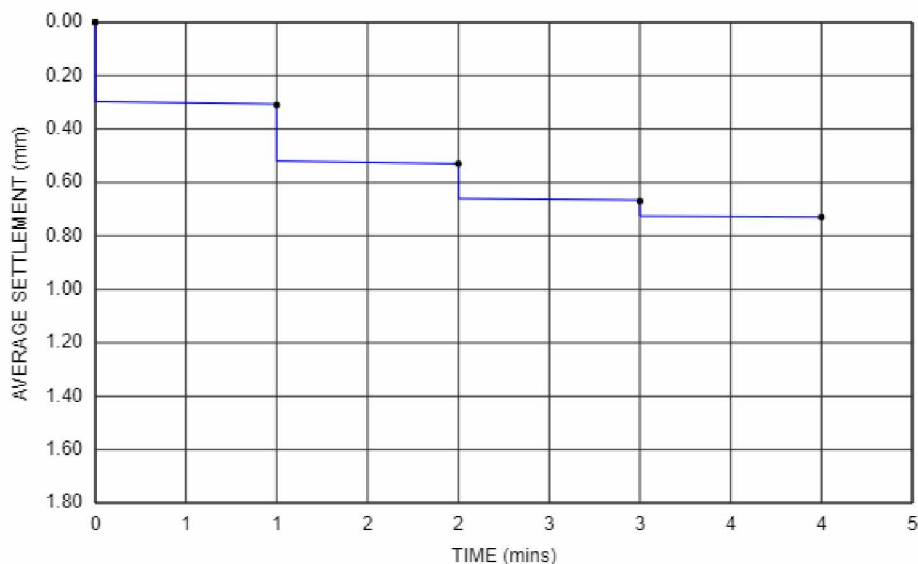
REPORT NUMBER:

C1055642 / 172110.1.1.5

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.1	57.0	-0.27	-0.36	-0.29	0.27	0.36	0.29	0.31
34.9	123.4	-0.42	-0.66	-0.51	0.42	0.66	0.51	0.53
58.3	206.3	-0.52	-0.79	-0.69	0.52	0.79	0.69	0.67
74.0	261.7	-0.59	-0.84	-0.76	0.59	0.84	0.76	0.73

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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Jack maxed out could not continue test at 470 bar.

For and on behalf of CTS
Vincent Faulkner - Operations Supervisor



Report date 17-Feb-22



0927

TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172110.1.1.6		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	H7 Sub Formation layer	MATERIAL:	Ballast/clay Mix
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

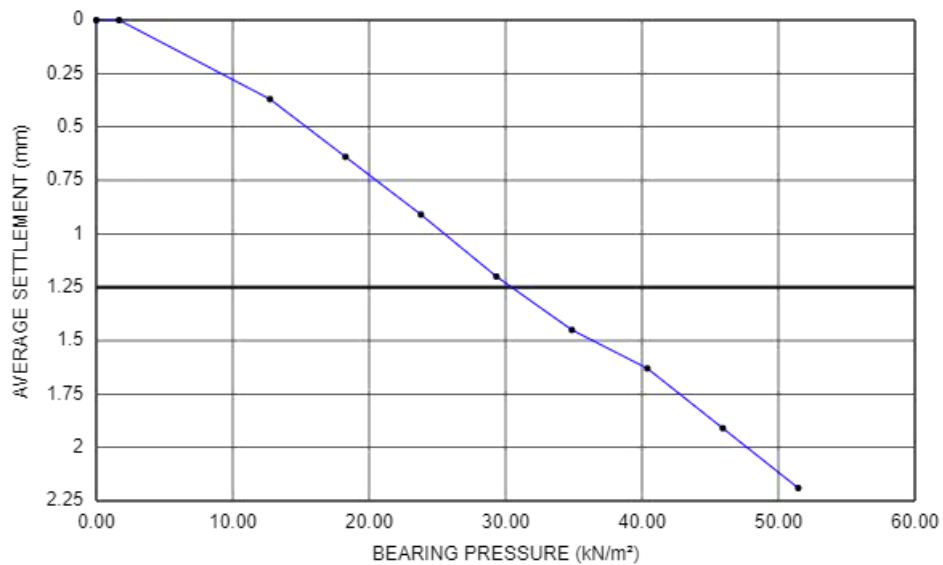
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 51 kN/m²
 Max settlement: 2.19 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 30 kN/m²
 Modulus of subgrade K762: 20 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 1.7%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 1.7 %

Remarks:

Test results reported relate only to the items tested.
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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

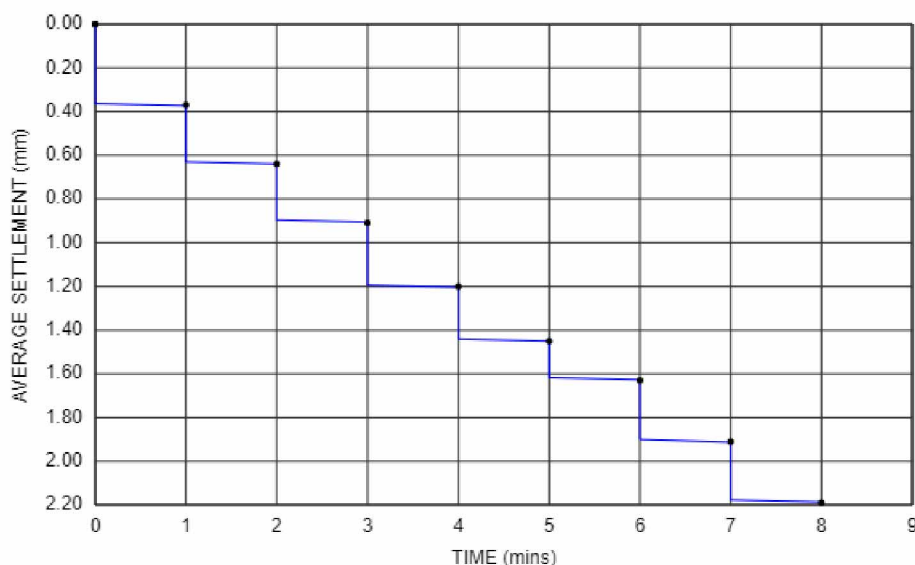
REPORT NUMBER:

C1055642 / 172110.1.1.6

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.6	12.7	-0.32	-0.43	-0.37	0.32	0.43	0.37	0.37
5.2	18.3	-0.60	-0.68	-0.64	0.60	0.68	0.64	0.64
6.7	23.8	-0.86	-0.94	-0.92	0.86	0.94	0.92	0.91
8.3	29.3	-1.17	-1.25	-1.19	1.17	1.25	1.19	1.20
9.9	34.9	-1.39	-1.50	-1.46	1.39	1.50	1.46	1.45
11.4	40.4	-1.54	-1.74	-1.60	1.54	1.74	1.60	1.63
13.0	45.9	-1.79	-2.05	-1.90	1.79	2.05	1.90	1.91
14.5	51.5	-2.13	-2.32	-2.11	2.13	2.32	2.11	2.19

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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Supervisor



0927

TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172110.1.1.7		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	17/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	J9 Sub Formation Layer	MATERIAL:	Type 1 - Crushed rock
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

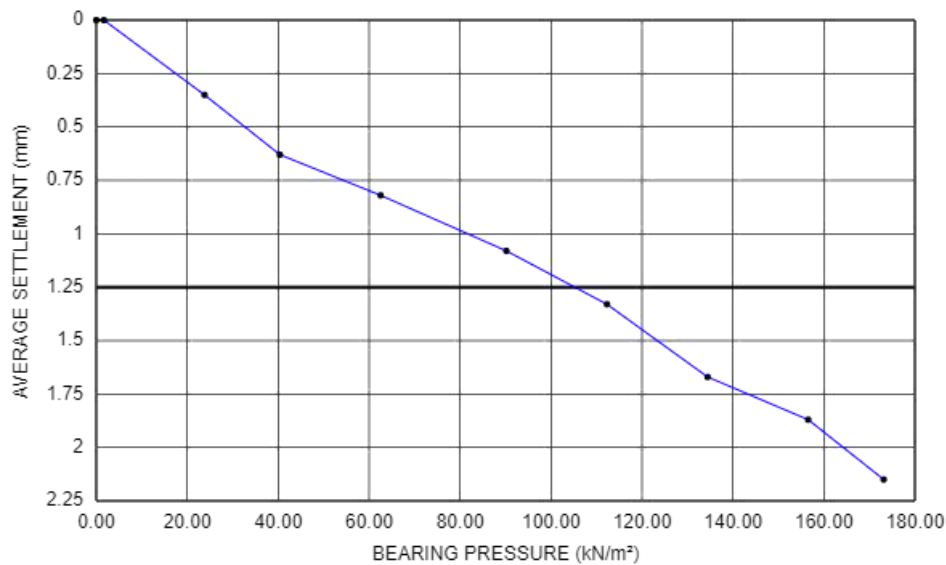
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 173 kN/m²
 Max settlement: 2.15 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 105 kN/m²
 Modulus of subgrade K762: 68 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 14.3%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 14.3 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

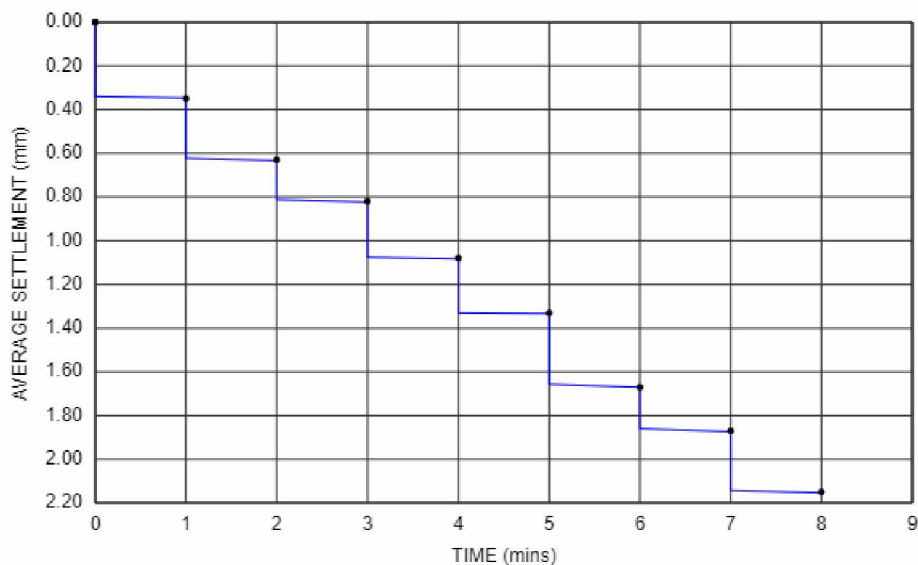
REPORT NUMBER:

C1055642 / 172110.1.1.7

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.7	23.8	-0.40	-0.38	-0.26	0.40	0.38	0.26	0.35
11.4	40.4	-0.64	-0.75	-0.51	0.64	0.75	0.51	0.63
17.7	62.5	-0.86	-0.91	-0.70	0.86	0.91	0.70	0.82
25.5	90.2	-1.12	-1.16	-0.97	1.12	1.16	0.97	1.08
31.8	112.3	-1.39	-1.40	-1.21	1.39	1.40	1.21	1.33
38.0	134.4	-1.69	-1.80	-1.52	1.69	1.80	1.52	1.67
44.3	156.6	-1.90	-1.99	-1.73	1.90	1.99	1.73	1.87
49.0	173.1	-2.21	-2.28	-1.97	2.21	2.28	1.97	2.15

SETTLEMENT RELATIONSHIP vs TIME



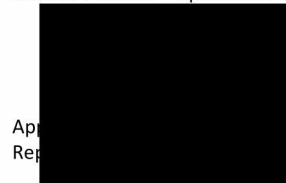
Remarks:

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For and on behalf of CTS

Vincent Faulkner - Operations Supervisor



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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172549.1.1.1		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	22/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	H7 Formation Layer	MATERIAL:	Clay/ballast mix
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

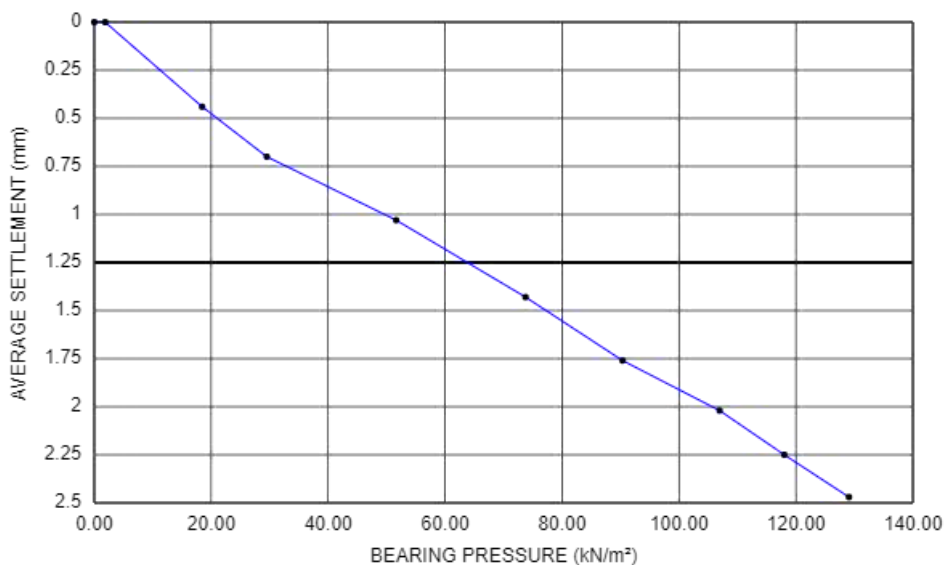
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 129 kN/m²
 Max settlement: 2.47 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 64 kN/m²
 Modulus of subgrade K762: 41 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 6.0%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 6.0 %

Remarks:

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Unit 12 Britannia Ind Estate
 Poyle Road
 Colnbrook SL3 0BH

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Report version 1

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

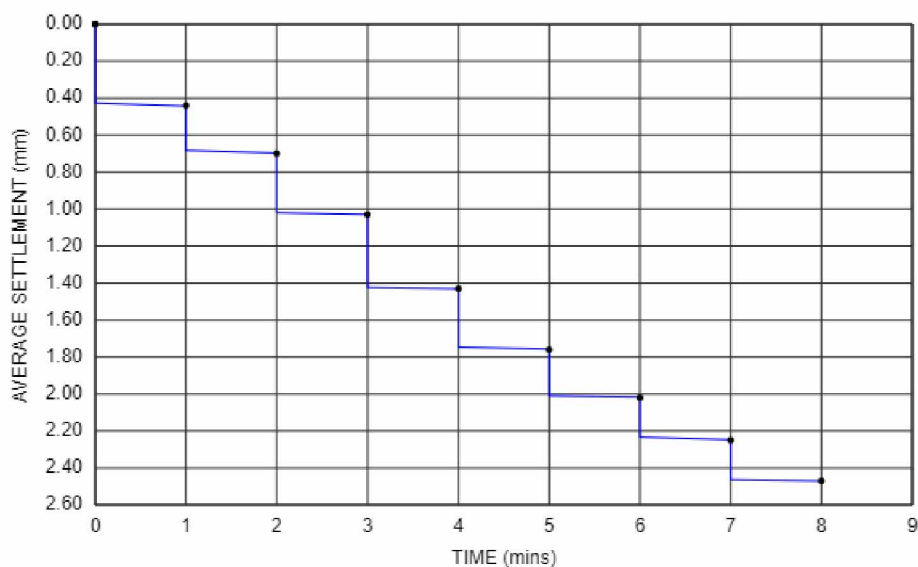
REPORT NUMBER:

C1055642 / 172549.1.1.1

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.2	18.4	-0.40	-0.38	-0.55	0.40	0.38	0.55	0.44
8.3	29.5	-0.63	-0.65	-0.81	0.63	0.65	0.81	0.70
14.6	51.6	-0.94	-0.96	-1.19	0.94	0.96	1.19	1.03
20.9	73.8	-1.29	-1.32	-1.68	1.29	1.32	1.68	1.43
25.5	90.4	-1.61	-1.68	-1.98	1.61	1.68	1.98	1.76
30.2	107.0	-1.89	-1.95	-2.21	1.89	1.95	2.21	2.02
33.4	118.0	-2.12	-2.19	-2.43	2.12	2.19	2.43	2.25
36.5	129.1	-2.30	-2.39	-2.72	2.30	2.39	2.72	2.47

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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Poyle Road
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END OF REPORT

For and on behalf of CTS

Supervisor

Approved Signature
Report date 22-Feb-22

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Registered in England No. 05998333

Report version 1



0927

TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172549.1.1.2		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	22/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	J7 Formation Layer	MATERIAL:	Clay/ballast Mix
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

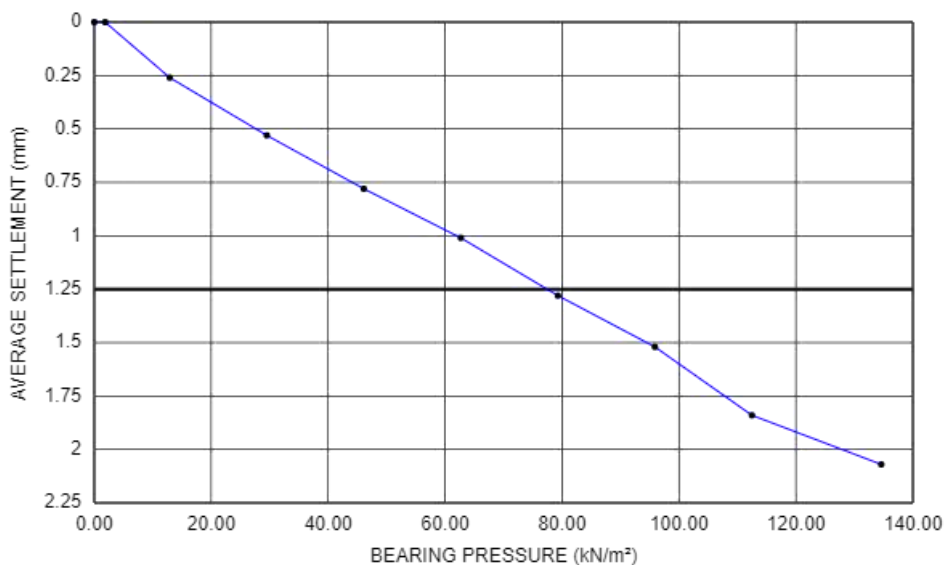
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 135 kN/m²
 Max settlement: 2.07 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 77 kN/m²
 Modulus of subgrade K762: 50 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 8.4%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 8.4 %

Remarks:

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Report Format: STP S8 rev.1

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 Poyle Road
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Report version 1

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

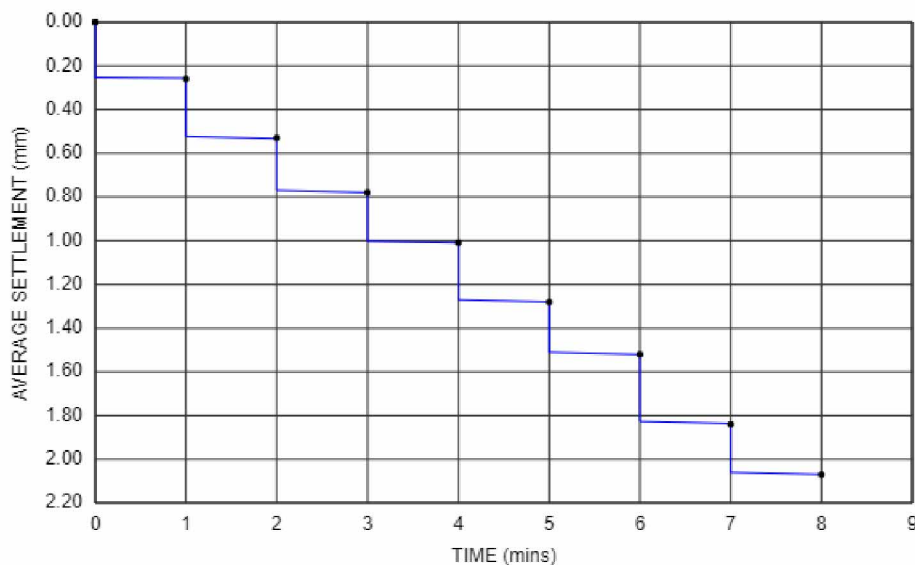
REPORT NUMBER:

C1055642 / 172549.1.1.2

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.6	12.9	-0.29	-0.31	-0.17	0.29	0.31	0.17	0.26
8.3	29.5	-0.59	-0.63	-0.38	0.59	0.63	0.38	0.53
13.0	46.1	-0.82	-0.90	-0.62	0.82	0.90	0.62	0.78
17.7	62.7	-1.04	-1.11	-0.88	1.04	1.11	0.88	1.01
22.4	79.3	-1.29	-1.37	-1.18	1.29	1.37	1.18	1.28
27.1	95.9	-1.59	-1.64	-1.33	1.59	1.64	1.33	1.52
31.8	112.5	-1.89	-1.94	-1.68	1.89	1.94	1.68	1.84
38.1	134.6	-2.12	-2.19	-1.90	2.12	2.19	1.90	2.07

SETTLEMENT RELATIONSHIP vs TIME



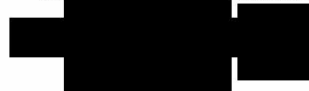
Remarks:

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For and on behalf of CTS

Virtual Operations Supervisor



Approved Signatory

Report date 22-Feb-22



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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172549.1.1.3		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	22/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	K5 Formation Layer	MATERIAL:	Crushed Type 1
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

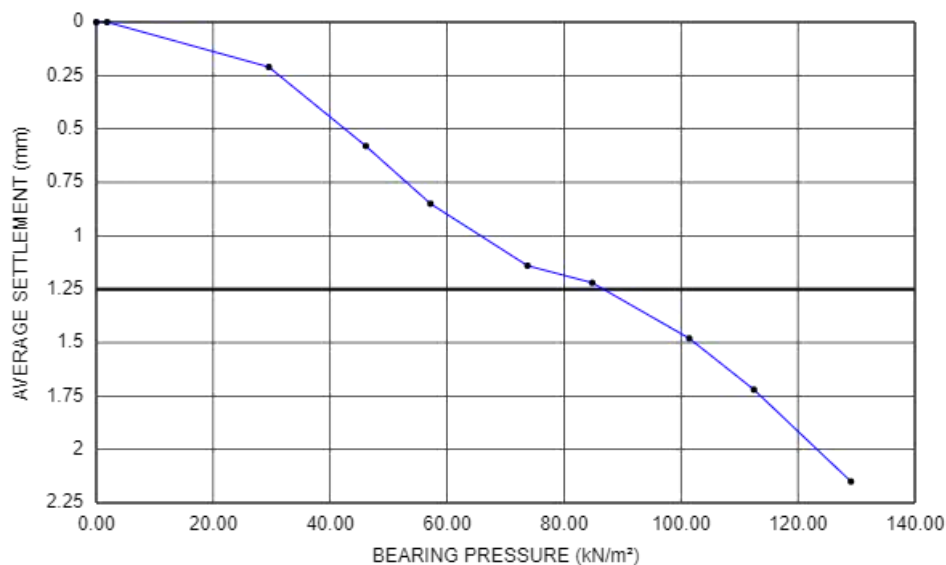
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 129 kN/m²
 Max settlement: 2.15 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 87 kN/m²
 Modulus of subgrade K762: 56 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 10.3%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 10.3 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

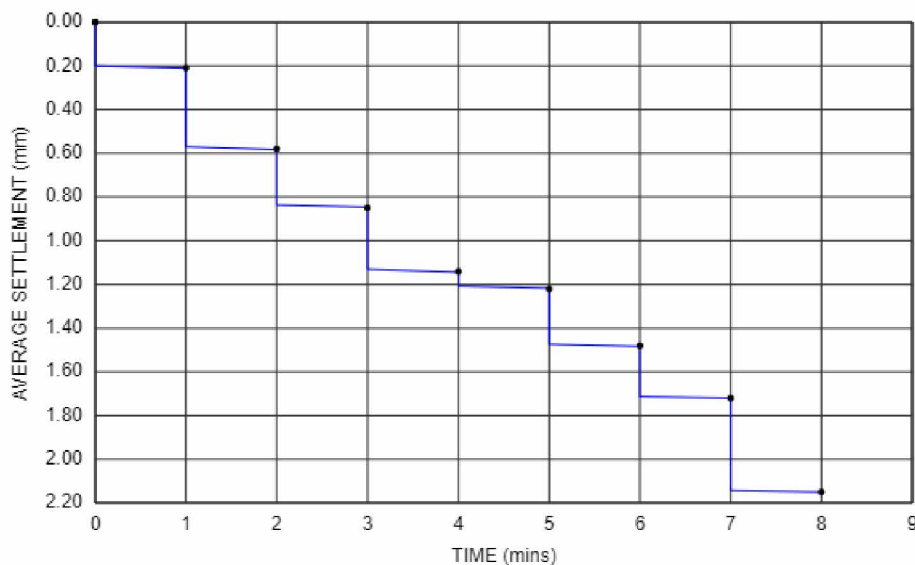
REPORT NUMBER:

C1055642 / 172549.1.1.3

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.3	29.5	-0.12	-0.33	-0.18	0.12	0.33	0.18	0.21
13.0	46.1	-0.27	-0.77	-0.71	0.27	0.77	0.71	0.58
16.2	57.2	-0.43	-0.99	-1.12	0.43	0.99	1.12	0.85
20.9	73.8	-0.66	-1.33	-1.44	0.66	1.33	1.44	1.14
24.0	84.8	-0.84	-1.35	-1.46	0.84	1.35	1.46	1.22
28.7	101.4	-1.14	-1.62	-1.69	1.14	1.62	1.69	1.48
31.8	112.5	-1.39	-1.83	-1.94	1.39	1.83	1.94	1.72
36.5	129.1	-1.70	-2.29	-2.46	1.70	2.29	2.46	2.15

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

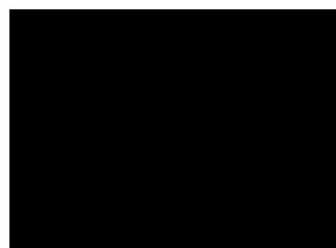
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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172549.1.1.4		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	22/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	K6 Formation Layer	MATERIAL:	Clay/ballast mix
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

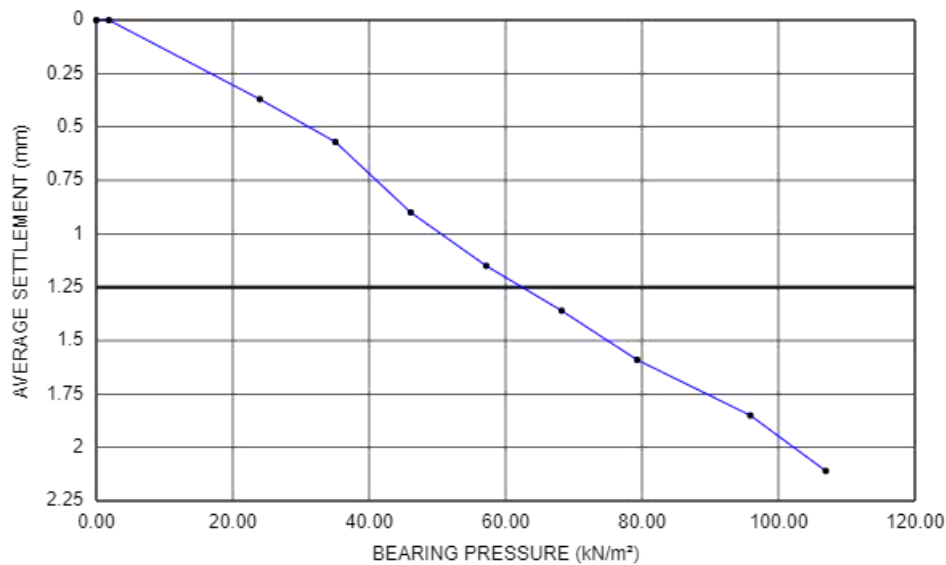
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 107 kN/m²
 Max settlement: 2.11 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 62 kN/m²
 Modulus of subgrade K762: 40 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 5.8%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 5.8 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

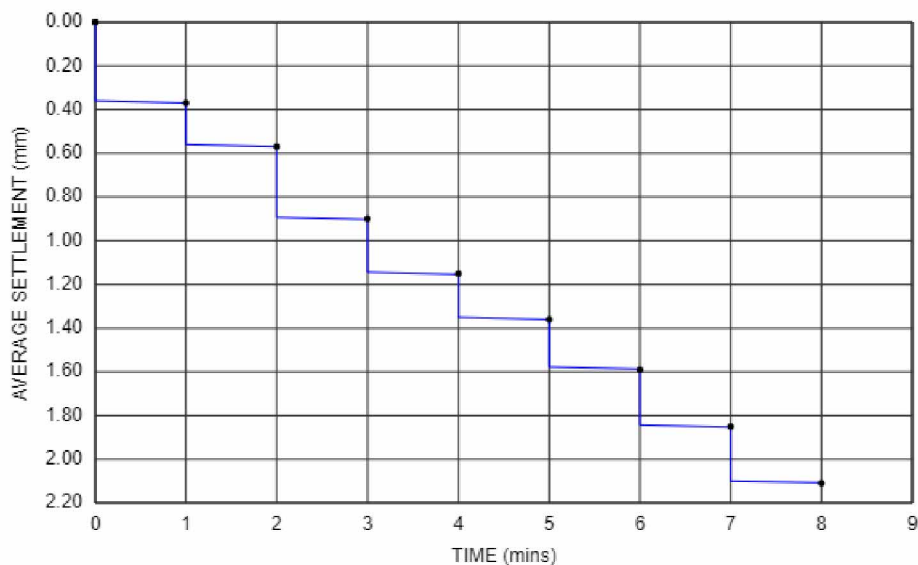
REPORT NUMBER:

C1055642 / 172549.1.1.4

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.8	24.0	-0.44	-0.39	-0.28	0.44	0.39	0.28	0.37
9.9	35.0	-0.60	-0.61	-0.50	0.60	0.61	0.50	0.57
13.0	46.1	-0.87	-0.98	-0.86	0.87	0.98	0.86	0.90
16.2	57.2	-1.05	-1.24	-1.17	1.05	1.24	1.17	1.15
19.3	68.2	-1.22	-1.48	-1.38	1.22	1.48	1.38	1.36
22.4	79.3	-1.48	-1.68	-1.60	1.48	1.68	1.60	1.59
27.1	95.9	-1.72	-1.95	-1.89	1.72	1.95	1.89	1.85
30.2	106.9	-1.98	-2.20	-2.14	1.98	2.20	2.14	2.11

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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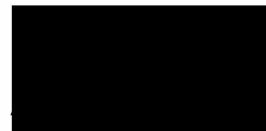
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For and on behalf of CTS

Vincent Faulkner - Operations Supervisor



Report date 22-Feb-22

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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172549.1.1.5		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	22/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	K7 Formation Layer	MATERIAL:	Clay/ballast mix
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

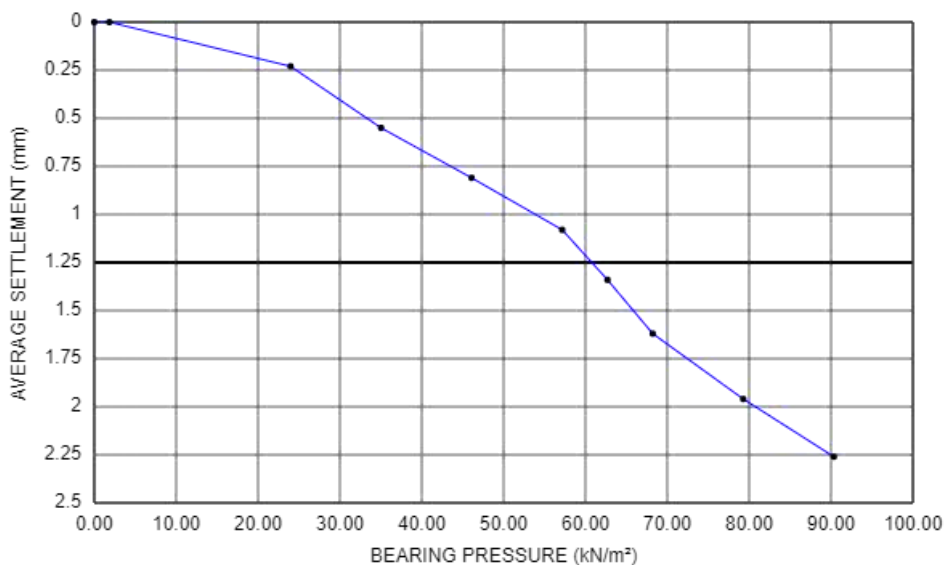
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 90 kN/m²
 Max settlement: 2.26 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 61 kN/m²
 Modulus of subgrade K762: 39 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 5.5%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 5.5 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

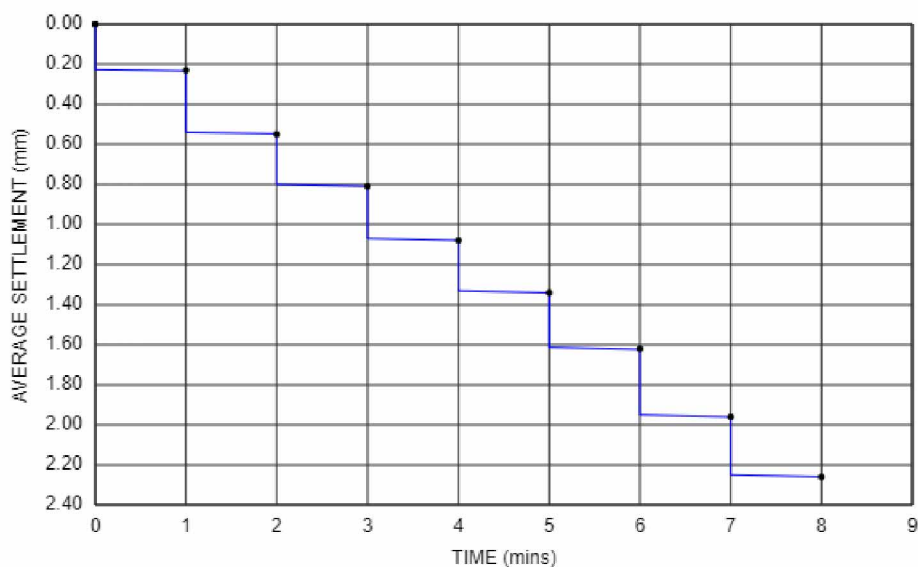
REPORT NUMBER:

C1055642 / 172549.1.1.5

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.8	24.0	-0.21	-0.22	-0.27	0.21	0.22	0.27	0.23
9.9	35.0	-0.42	-0.56	-0.66	0.42	0.56	0.66	0.55
13.0	46.1	-0.59	-0.88	-0.96	0.59	0.88	0.96	0.81
16.2	57.2	-0.73	-1.19	-1.32	0.73	1.19	1.32	1.08
17.7	62.7	-0.89	-1.49	-1.64	0.89	1.49	1.64	1.34
19.3	68.2	-1.07	-1.81	-1.99	1.07	1.81	1.99	1.62
22.4	79.3	-1.35	-2.21	-2.32	1.35	2.21	2.32	1.96
25.5	90.4	-1.59	-2.51	-2.68	1.59	2.51	2.68	2.26

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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For and on behalf of CTS

Construction Testing Solutions Supervisor

Approved Signatory
Report date 22-Feb-22

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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172549.1.1.6		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	22/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	K8 Formation Layer	MATERIAL:	Clay/Ballast mix
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

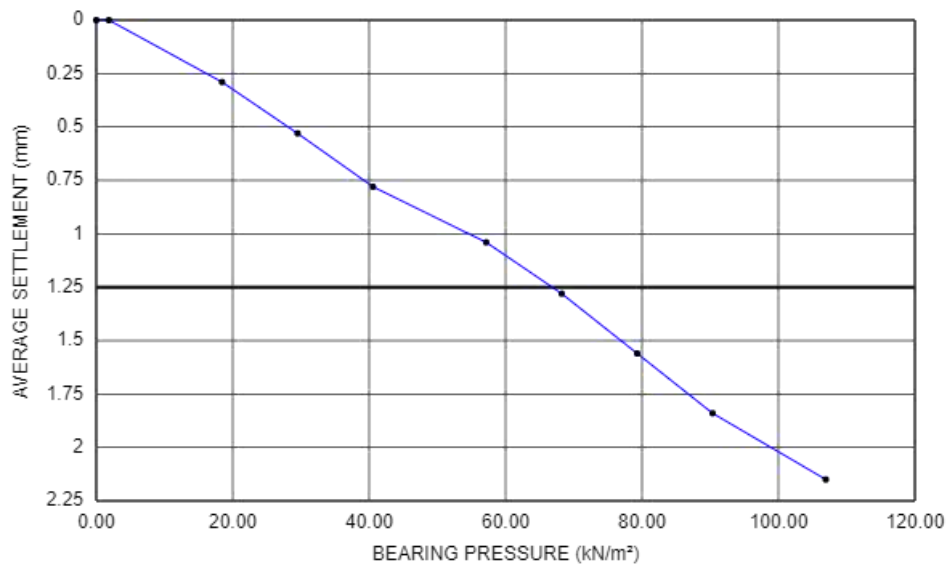
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 107 kN/m²
 Max settlement: 2.15 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 67 kN/m²
 Modulus of subgrade K762: 43 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 6.6%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 6.6 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

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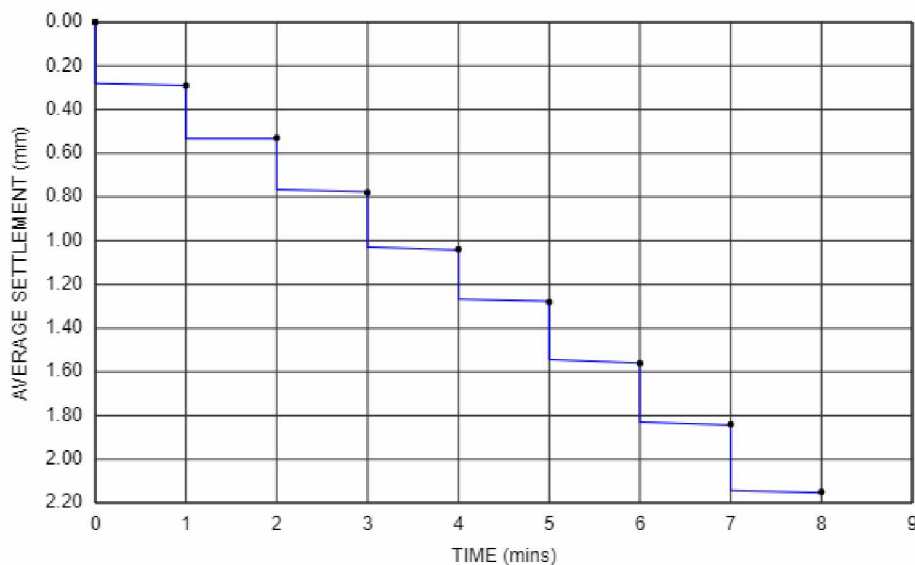
REPORT NUMBER:

C1055642 / 172549.1.1.6

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.2	18.4	-0.29	-0.33	-0.25	0.29	0.33	0.25	0.29
8.3	29.5	-0.53	-0.62	-0.45	0.53	0.62	0.45	0.53
11.5	40.6	-0.76	-0.91	-0.66	0.76	0.91	0.66	0.78
16.2	57.2	-1.01	-1.22	-0.90	1.01	1.22	0.90	1.04
19.3	68.2	-1.25	-1.49	-1.09	1.25	1.49	1.09	1.28
22.4	79.3	-1.51	-1.79	-1.38	1.51	1.79	1.38	1.56
25.5	90.4	-1.75	-2.13	-1.65	1.75	2.13	1.65	1.84
30.2	106.9	-2.05	-2.47	-1.94	2.05	2.47	1.94	2.15

SETTLEMENT RELATIONSHIP vs TIME



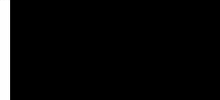
Remarks:

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For and on behalf of CTS

Vincent Faulkner - Operations Supervisor



Approved Signatory

Report date 22-Feb-22



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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172549.1.1.7		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	22/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	K9 Formation Layer	MATERIAL:	Clay/ballast mix
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

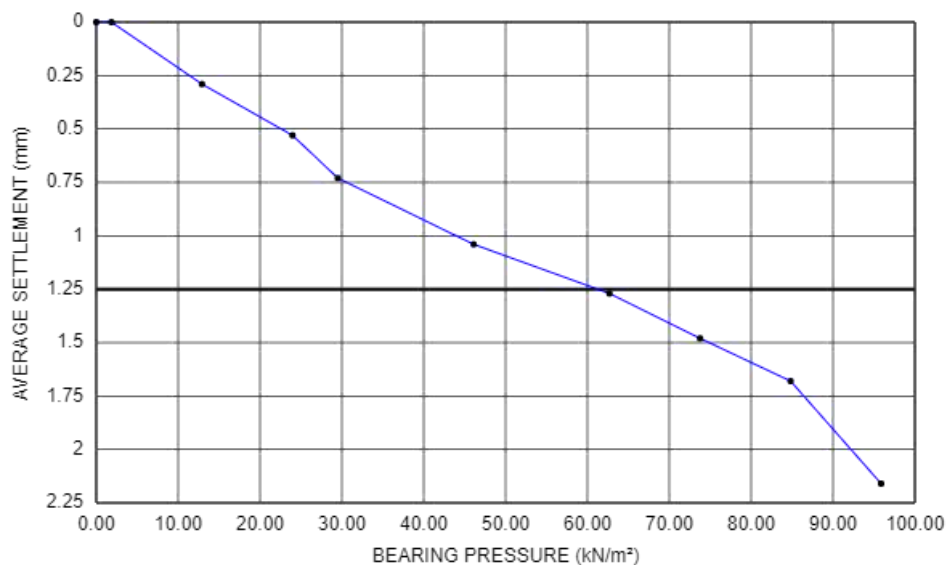
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 96 kN/m²
 Max settlement: 2.16 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 61 kN/m²
 Modulus of subgrade K762: 40 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 5.7%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 5.7 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

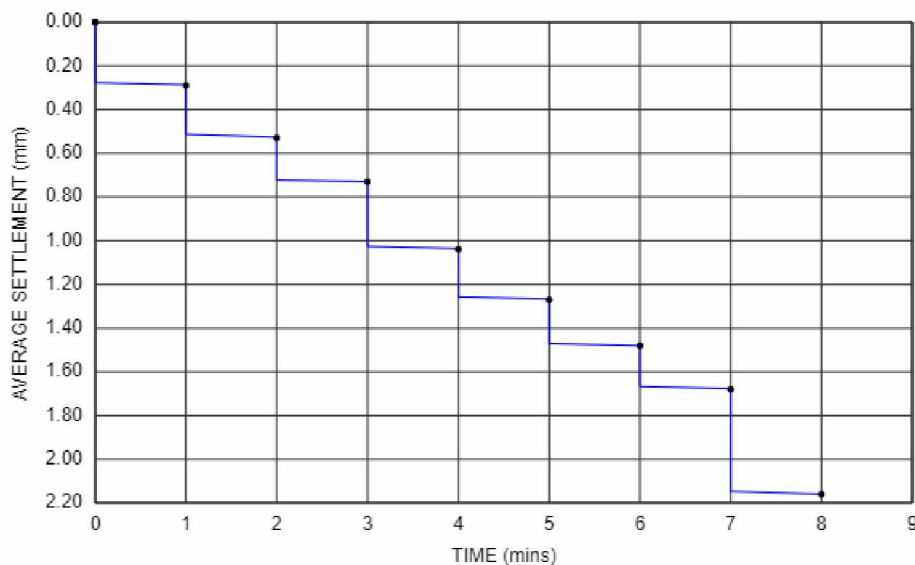
REPORT NUMBER:

C1055642 / 172549.1.1.7

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.6	12.9	-0.31	-0.40	-0.15	0.31	0.40	0.15	0.29
6.8	24.0	-0.55	-0.59	-0.44	0.55	0.59	0.44	0.53
8.3	29.5	-0.78	-0.78	-0.63	0.78	0.78	0.63	0.73
13.0	46.1	-1.10	-1.07	-0.94	1.10	1.07	0.94	1.04
17.7	62.7	-1.33	-1.31	-1.16	1.33	1.31	1.16	1.27
20.9	73.8	-1.57	-1.52	-1.35	1.57	1.52	1.35	1.48
24.0	84.8	-1.78	-1.72	-1.53	1.78	1.72	1.53	1.68
27.1	95.9	-2.30	-2.24	-1.94	2.30	2.24	1.94	2.16

SETTLEMENT RELATIONSHIP vs TIME



Remarks:

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For and on behalf of CTS

Vincent Faulkner - Operations Supervisor



Approved Signatory
Report date 22-Feb-22

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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172549.1.1.8		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	22/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	J8 Formation Layer	MATERIAL:	Clay/ballast mix
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

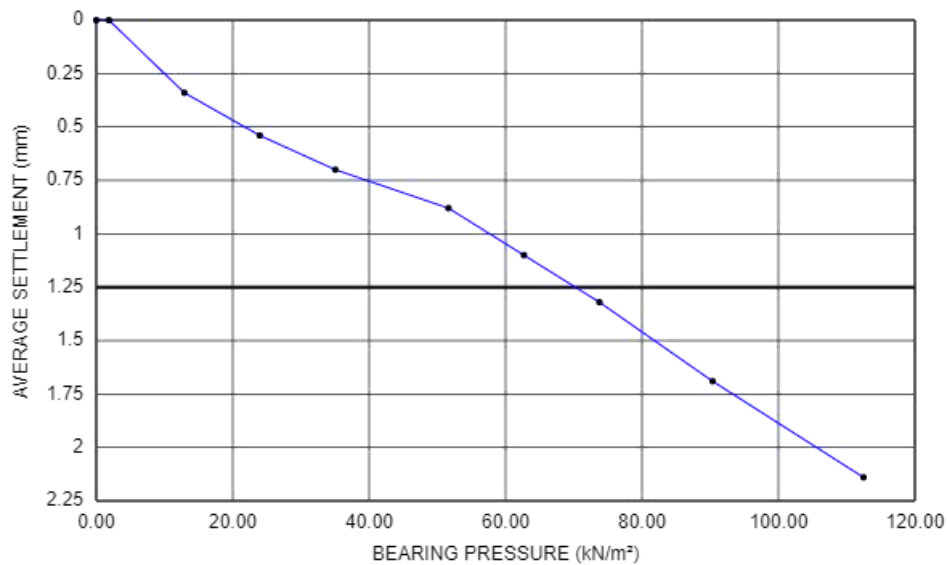
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 112 kN/m²
 Max settlement: 2.14 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 70 kN/m²
 Modulus of subgrade K762: 45 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 7.1%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 7.1 %

Remarks:

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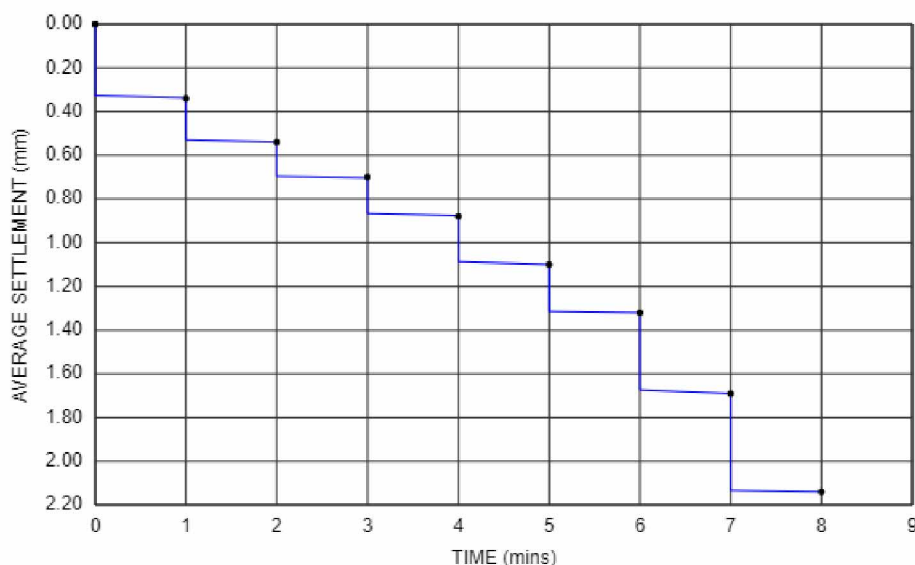
TEST REPORT:
Determination of Equivalent CBR Value
REPORT NUMBER:

 In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)
 C1055642 / 172549.1.1.8

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.6	12.9	-0.38	-0.53	-0.10	0.38	0.53	0.10	0.34
6.8	24.0	-0.63	-0.80	-0.19	0.63	0.80	0.19	0.54
9.9	35.0	-0.84	-0.99	-0.28	0.84	0.99	0.28	0.70
14.6	51.6	-1.05	-1.23	-0.35	1.05	1.23	0.35	0.88
17.7	62.7	-1.33	-1.51	-0.46	1.33	1.51	0.46	1.10
20.9	73.8	-1.60	-1.78	-0.58	1.60	1.78	0.58	1.32
25.5	90.4	-2.05	-2.22	-0.80	2.05	2.22	0.80	1.69
31.8	112.5	-2.61	-2.82	-0.99	2.61	2.82	0.99	2.14

SETTLEMENT RELATIONSHIP vs TIME


Remarks:

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 END OF REPORT

 For and on behalf of CTS
 Vincent Faulkner - Operations Supervisor

 Approved Signatory
 Report date 22-Feb-22

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Report version 1



0927

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TEST REPORT:	Determination of Equivalent CBR Value		
	In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)		
REPORT NUMBER:	C1055642 / 172549.1.1.9		
CLIENT REF:	1055642	CLIENT:	Collins Earthworks Limited
DATE COMPLETED:	22/02/2022	ADDRESS:	Whiteley Road, Ripley, Derbyshire, DE5 3QL
TESTED BY:	Thomas Cook	SITE:	Havant, Portsmouth
LOCATION:	H8 Formation Layer	MATERIAL:	Clay/ballast mix
DISTANCE FROM EDGE OF PLATE TO WALL:	N/A	SUPPLIER:	Site Won
TEST METHOD:	Incremental Plate Loading	SOURCE:	In-Situ
SAMPLING PLAN:	Client Specification	SAMPLE TAKEN:	No

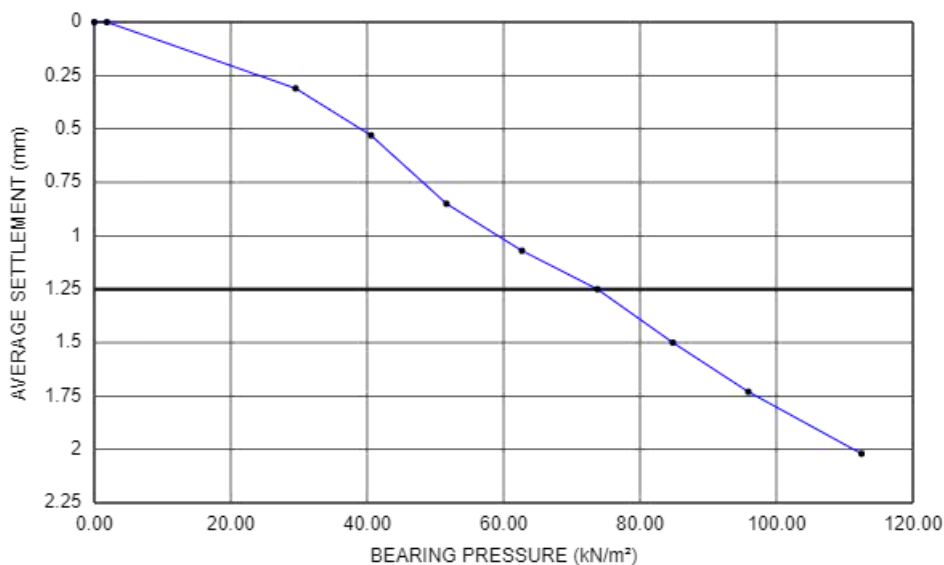
Equipment Details

Type of Kentledge: 18 Ton Excavator
 Plate Diameter: 600 mm
 Plate Area: 0.282743 m²
 Plate Correction: 0.80

Results

Max applied pressure: 112 kN/m²
 Max settlement: 2.02 mm
 Avg Bearing Pressure (P) at 1.25mm penetration: 74 kN/m²
 Modulus of subgrade K762: 47 kN/m²/mm
 Equivalent C.B.R Value at 1.25mm penetration: 7.7%

APPLIED LOAD vs SETTLEMENT RELATIONSHIP



Equivalent C.B.R Value: 7.7 %

Remarks:

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TEST REPORT:

Determination of Equivalent CBR Value

In-house Test Procedure STP S8 & Interim Advice Note 73/06 Revision 1 (2009) Design Guidance for Road Pavement Foundations (DRAFT HD25)

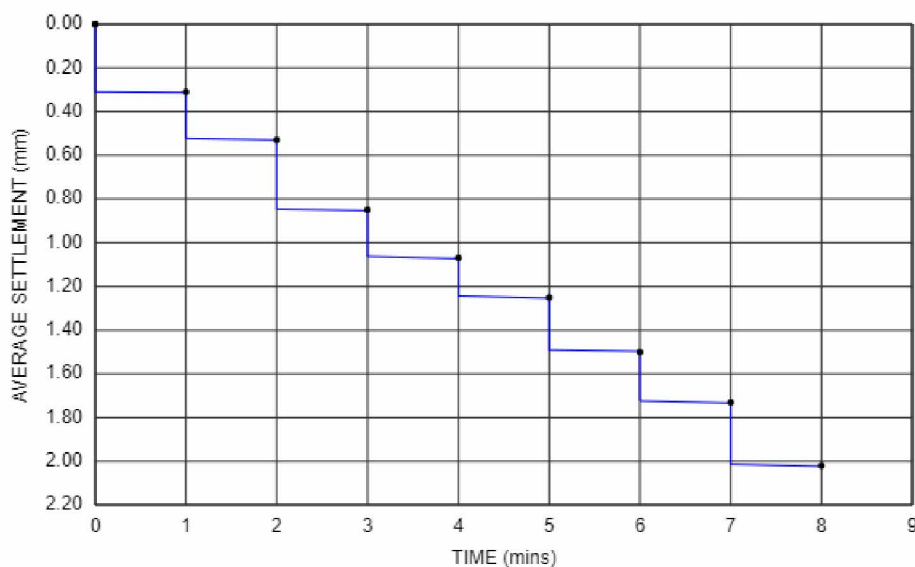
REPORT NUMBER:

C1055642 / 172549.1.1.9

TEST RESULTS

LOAD APPLIED TO PLATE	AVERAGE BEARING PRESSURE	GAUGE READING			GAUGE SETTLEMENT			AVERAGE SETTLEMENT
		1	2	3	1	2	3	
kN	kN/m ²	mm			mm			mm
0.5	1.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.3	29.5	-0.11	-0.52	-0.31	0.11	0.52	0.31	0.31
11.5	40.6	-0.28	-0.77	-0.54	0.28	0.77	0.54	0.53
14.6	51.6	-0.54	-1.12	-0.90	0.54	1.12	0.90	0.85
17.7	62.7	-0.70	-1.32	-1.20	0.70	1.32	1.20	1.07
20.9	73.8	-0.84	-1.50	-1.42	0.84	1.50	1.42	1.25
24.0	84.8	-1.04	-1.73	-1.72	1.04	1.73	1.72	1.50
27.1	95.9	-1.22	-1.97	-2.01	1.22	1.97	2.01	1.73
31.8	112.5	-1.49	-2.20	-2.38	1.49	2.20	2.38	2.02

SETTLEMENT RELATIONSHIP vs TIME



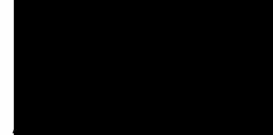
Remarks:

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For and on behalf of CTS

Supervisor



Report date 22-Feb-22



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