Project Name	Project Olympus
Document Reference	LCY10-KTB-ZZ-XX-RP-X-00006 Rev AB01
Purpose of Issue	S5

Document Control Sheet

Revision	Date	Revision Note
AB01	19.01.2026	Second Preliminary Test Pile will be carried out as part of LCY12 and LCY 13 works. As the second Preliminary has been undertaken before LCY11 was piled, the model factor was not reduced for piles founding in the Thanet for building LCY11.

Asite Ref: LCY10-KTB-ZZ-XX-RP-X-00006 AB01

SOCOTEC UK Limited
Wass Way
Durham Lane Industrial Park
Stockton-on-Tees
TS16 0RG

Pile Load Test Report

SOC-FNDS-MLT-24-488.1

Contract Information

SOCOTEC UK Reference	FNDS-24-488	*Contract Reference*	BE0046
Client	Keltbray	*Client Contact*	Graham Smith
Client Address	St Andrew's House Portsmouth Road Esher Surrey KT10 9TA		
Site Address	54A North Woolwich Road Silvertown London E16 2AA		

SOCOTEC

Digitally signed by: Michael Plummer
Date: 2024.11.18 16:38:31 Z

Abstract

This report describes the load testing carried out by SOCOTEC UK at Project Olympus on PTP1. The data presented in this report represents a summary of the measured readings due to the volume obtained. Full data records can be provided upon request.

Summary

Increment	Load (kN)	Maximum Disp. (mm)	Residual Disp. (mm)
100% DVL	2500	4.12	0.85
100% DVL + 50% F_{REP}	3750	8.62	
100% DVL + 185% F_{REP}	7125	31.21	19.27
100% DVL + 50% F_{REP}	1325	26.73	19.31

Revision History

Revision	Report Date	Issue Date	Author	Verifier	Revision Details
1	18/11/2024	18/11/2024	DM	MP	Initial Document

Contents

Figures

Tables

Introduction

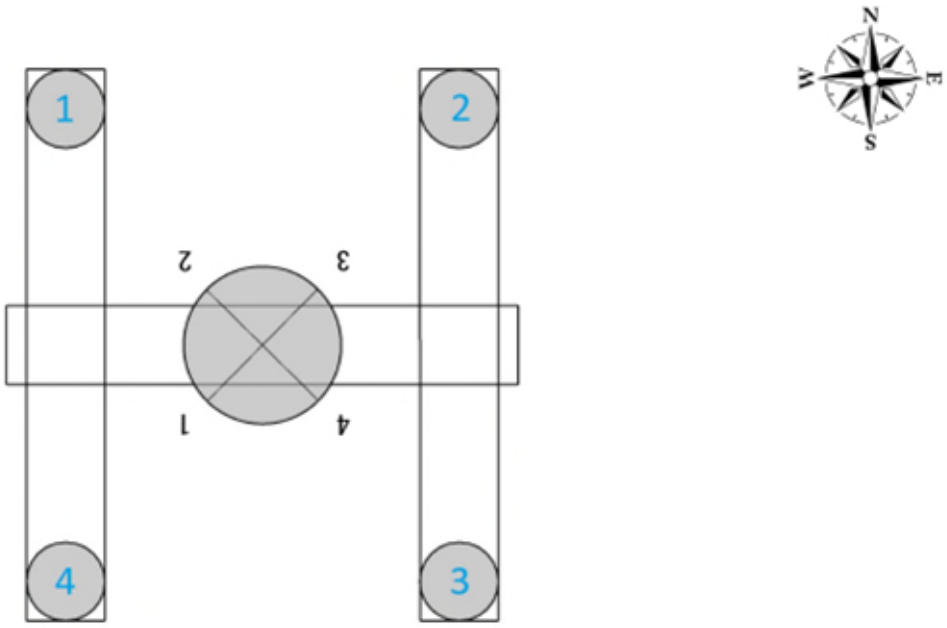
SOCOTEC UK were employed by Keltbray to undertake a Maintained Load Test at Project Olympus between the dates of 11/11/2024 and 14/11/2024. A 600 mm diameter pile designated PTP1 was installed to a depth of 29.01 m by Keltbray on 01/10/2024 using a continuous flight auger method. The pile was tested in vertical compression to a maximum load of 8,000 kN following ICE SPERW 3rd Edition.

SOCOTEC UK utilised an S1000 reaction frame built above the test pile. Load was applied to the test pile using a 15000 kN hydraulic actuator and monitored using a 15000 kN strain gauge load cell calibrated with full traceability to national standards. Load control was performed using SOCOTEC UK's automated system, which maintains the applied load within 5 kN of the target.

Instrumentation – Pile Head

Pile displacement was monitored using four linear potentiometric displacement transducers mounted on a reference frame and connected to a Campbell Scientific CR1000 data logger.

Figure 1 – Pile Head Instrumentation Layout



Testing Schedule

The test was performed as described in ICE SPERW 3rd Edition following multiple loading cycles to 100% DVL + 220% F_{REP}. The proposed loading increments are shown in Table 1.

DVL = 2,500 kN
F_{REP} = 2,500 kN

Table 1 – Loading Increments

Increment	DVL %	F_{REP} %	Load (kN)	Minimum Hold Time (min)
1	25	0	625	30
2	50	0	1250	30
3	75	0	1875	30
4	100	0	2500	360
5	75	0	1875	10
6	50	0	1250	10
7	25	0	625	10
8	0	0	0	60
9	100	0	2500	60
10	100	25	3125	60
11	100	50	3750	60
12	100	75	4375	60
13	100	85	4625	60
14	100	95	4875	60
15	100	105	5125	60
16	100	115	5375	60
17	100	125	5625	60
18	100	135	5875	60
19	100	145	6125	60
20	100	155	6375	60
21	100	165	6625	60
22	100	175	6875	60
23	100	185	7125	60
24	100	195	7375	60
25	100	205	7625	60
26	100	215	7875	60
27	100	220	8000	60
28	100	167	6675	10
29	100	113	5325	10
30	100	60	4000	10
31	100	7	2675	10

Increment	DVL %	F_{REP} %	Load (kN)	Minimum Hold Time (min)
32	53	0	1325	10
33	0	0	0	60

Summary of Results – Pile Head

Table 2 – Pile Head Results Summary

Increment	*Row Number*	Time	Increment	Load (kN)	Average Disp. (mm)	Disp. 1 (mm)	Disp. 2 (mm)	Disp. 3 (mm)	Disp. 4 (mm)	Temp. (°C)
0	2	11/11/2024 15:49	0% DVL	0	0.00	0.00	0.00	0.00	0.00	11.0
1	37	11/11/2024 16:14	25% DVL Start	623	0.43	0.21	0.47	0.67	0.38	10.3
1	73	11/11/2024 16:50	25% DVL End	625	0.53	0.30	0.53	0.79	0.51	9.7
2	76	11/11/2024 16:52	50% DVL Start	1245	1.31	0.81	1.35	1.80	1.26	9.7
2	129	11/11/2024 17:45	50% DVL End	1254	1.54	1.05	1.57	2.05	1.51	9.1
3	132	11/11/2024 17:47	75% DVL Start	1872	2.35	1.60	2.42	3.07	2.30	9.1
3	175	11/11/2024 18:30	75% DVL End	1875	2.54	1.74	2.63	3.33	2.48	8.5
4	178	11/11/2024 18:32	100% DVL Start	2495	3.63	2.60	3.74	4.62	3.57	8.5
4	541	12/11/2024 00:35	100% DVL End	2501	4.12	2.94	4.30	5.25	3.98	6.8
5	544	12/11/2024 00:37	75% DVL Start	1883	3.81	2.82	3.89	4.81	3.73	6.8
5	557	12/11/2024 00:50	75% DVL End	1881	3.74	2.75	3.81	4.74	3.67	6.7
6	561	12/11/2024 00:54	50% DVL Start	1259	3.07	2.22	3.10	3.96	3.02	6.6
6	573	12/11/2024 01:05	50% DVL End	1256	3.04	2.19	3.04	3.92	3.01	6.6
7	581	12/11/2024 01:12	25% DVL Start	634	2.15	1.53	2.14	2.77	2.17	6.6
7	594	12/11/2024 01:25	25% DVL End	632	1.99	1.38	2.02	2.60	1.97	6.7
8	613	12/11/2024 01:44	0% DVL Start	0	1.09	0.91	1.04	1.26	1.15	6.5
8	695	12/11/2024 03:05	0% DVL End	0	0.85	0.72	0.81	0.97	0.89	6.2
9	704	12/11/2024 03:13	100% DVL Start	2496	3.84	2.72	3.98	4.95	3.73	6.2
9	781	12/11/2024 04:30	100% DVL End	2501	4.20	3.05	4.33	5.36	4.08	6.8
10	784	12/11/2024 04:32	100% DVL + 25% F_{REP} Start	3121	5.16	3.88	5.30	6.45	5.04	6.7
10	857	12/11/2024 05:45	100% DVL + 25% F_{REP} End	3125	5.61	4.20	5.81	6.99	5.44	6.7

Increment	*Row Number*	Time	Increment	Load (kN)	Average Disp. (mm)	Disp. 1 (mm)	Disp. 2 (mm)	Disp. 3 (mm)	Disp. 4 (mm)	Temp. (°C)
11	863	12/11/2024 05:51	100% DVL + 50% F_{REP} Start	3743	6.83	5.15	7.12	8.51	6.56	6.7
11	1163	12/11/2024 10:50	100% DVL + 50% F_{REP} End	3748	8.62	6.54	9.03	10.59	8.32	15.8
12	1167	12/11/2024 10:54	100% DVL + 75% F_{REP} Start	4371	9.51	7.11	10.05	11.81	9.06	15.7
12	1349	12/11/2024 13:35	100% DVL + 75% F_{REP} End	4376	11.20	8.57	11.97	13.62	10.64	14.5
13	1351	12/11/2024 13:36	100% DVL + 85% F_{REP} Start	4625	11.35	8.65	12.20	13.83	10.71	14.5
13	1415	12/11/2024 14:40	100% DVL + 85% F_{REP} End	4623	11.85	9.09	12.68	14.43	11.22	13.0
14	1417	12/11/2024 14:41	100% DVL + 95% F_{REP} Start	4873	12.04	9.20	12.93	14.68	11.35	13.0
14	1501	12/11/2024 16:05	100% DVL + 95% F_{REP} End	4873	12.91	9.95	13.81	15.69	12.18	11.8
15	1503	12/11/2024 16:06	100% DVL + 105% F_{REP} Start	5122	13.12	10.06	14.10	16.02	12.33	11.7
15	1592	12/11/2024 17:35	100% DVL + 105% F_{REP} End	5124	13.95	10.61	15.11	17.12	12.97	10.2
16	1594	12/11/2024 17:36	100% DVL + 115% F_{REP} Start	5371	14.10	10.64	15.33	17.40	13.03	10.2
16	1733	12/11/2024 19:55	100% DVL + 115% F_{REP} End	5372	15.42	11.65	16.80	19.01	14.22	10.1
17	1735	12/11/2024 19:56	100% DVL + 125% F_{REP} Start	5621	15.83	12.06	17.22	19.47	14.57	10.0
17	1929	12/11/2024 23:10	100% DVL + 125% F_{REP} End	5624	17.46	13.39	19.06	21.41	15.98	9.8
18	1931	12/11/2024 23:11	100% DVL + 135% F_{REP} Start	5875	17.77	13.64	19.40	21.80	16.24	9.8
18	2045	13/11/2024 01:05	100% DVL + 135% F_{REP} End	5873	18.99	14.62	20.73	23.24	17.38	9.2
19	2047	13/11/2024 01:06	100% DVL + 145% F_{REP} Start	6124	19.44	15.07	21.18	23.70	17.81	9.1
19	2206	13/11/2024 03:45	100% DVL + 145% F_{REP} End	6123	21.05	16.38	22.97	25.62	19.25	8.6
20	2208	13/11/2024 03:46	100% DVL + 155% F_{REP} Start	6373	21.45	16.75	23.37	26.04	19.63	8.7
20	2632	13/11/2024 10:50	100% DVL + 155% F_{REP} End	6375	24.58	19.42	26.79	29.62	22.50	17.2
21	2634	13/11/2024 10:51	100% DVL + 165% F_{REP} Start	6622	24.78	19.54	27.02	29.88	22.66	17.1
21	2798	13/11/2024 13:35	100% DVL + 165% F_{REP} End	6624	26.80	21.44	29.12	32.04	24.60	13.5
22	2800	13/11/2024 13:36	100% DVL + 175% F_{REP} Start	6871	26.90	21.44	29.30	32.23	24.63	13.3
22	2929	13/11/2024 15:45	100% DVL + 175% F_{REP} End	6873	29.17	23.49	31.65	34.72	26.82	12.8

Increment	*Row Number*	Time	Increment	Load (kN)	Average Disp. (mm)	Disp. 1 (mm)	Disp. 2 (mm)	Disp. 3 (mm)	Disp. 4 (mm)	Temp. (°C)
23	2931	13/11/2024 15:46	100% DVL + 185% F_{REP} Start	7121	29.35	23.58	31.90	34.99	26.94	12.6
23	3050	13/11/2024 17:45	100% DVL + 185% F_{REP} End	7124	31.21	25.21	33.88	37.10	28.65	9.8
24	3052	13/11/2024 17:46	100% DVL + 128% F_{REP} Start	5707	30.17	24.50	32.57	35.74	27.87	9.8
24	3066	13/11/2024 18:00	100% DVL + 128% F_{REP} End	5702	30.09	24.46	32.48	35.64	27.79	9.7
25	3068	13/11/2024 18:01	100% DVL + 71% F_{REP} Start	4284	28.48	23.36	30.47	33.42	26.66	9.6
25	3082	13/11/2024 18:15	100% DVL + 71% F_{REP} End	4283	28.34	23.28	30.29	33.23	26.58	9.5
26	3085	13/11/2024 18:17	100% DVL + 14% F_{REP} Start	2857	26.10	21.61	27.78	30.33	24.70	9.6
26	3098	13/11/2024 18:30	100% DVL + 14% F_{REP} End	2856	26.03	21.61	27.65	30.17	24.70	9.5
27	3103	13/11/2024 18:34	57% DVL Start	1432	23.68	20.00	25.05	27.01	22.66	9.4
27	3114	13/11/2024 18:45	57% DVL End	1432	23.34	19.72	24.74	26.66	22.26	9.3
28	3224	13/11/2024 20:34	0% DVL Start	1	19.32	17.20	20.44	21.16	18.46	8.5
28	3283	13/11/2024 21:32	0% DVL End	2	19.27	17.18	20.38	21.08	18.46	8.4
29	3992	14/11/2024 09:20	25% DVL Start	625	19.90	17.56	21.05	22.03	18.94	10.5
29	4057	14/11/2024 10:25	25% DVL End	623	20.40	18.03	21.57	22.53	19.45	17.7
30	4059	14/11/2024 10:26	50% DVL Start	1247	21.23	18.78	22.33	23.46	20.36	17.7
30	4093	14/11/2024 11:00	50% DVL End	1250	21.39	18.92	22.45	23.64	20.56	14.9
31	4097	14/11/2024 11:03	100% DVL Start	2497	23.75	21.07	24.67	26.14	23.10	14.6
31	4154	14/11/2024 12:00	100% DVL End	2498	24.23	21.67	25.08	26.55	23.62	13.6
32	4162	14/11/2024 12:07	100% DVL + 50% F_{REP} Start	3748	26.34	23.56	27.20	28.87	25.74	13.2
32	4210	14/11/2024 12:55	100% DVL + 50% F_{REP} End	3751	26.73	24.01	27.51	29.23	26.18	12.1
33	4212	14/11/2024 12:56	100% DVL + 20% F_{REP} Start	3007	26.01	23.39	26.72	28.44	25.51	12.1
33	4226	14/11/2024 13:10	100% DVL + 20% F_{REP} End	3006	25.88	23.24	26.60	28.30	25.38	12.1
34	4228	14/11/2024 13:11	90% DVL Start	2258	24.77	22.20	25.51	27.10	24.26	12.1
34	4242	14/11/2024 13:25	90% DVL End	2253	24.57	22.00	25.30	26.90	24.06	12.2

Increment	*Row Number*	Time	Increment	Load (kN)	Average Disp. (mm)	Disp. 1 (mm)	Disp. 2 (mm)	Disp. 3 (mm)	Disp. 4 (mm)	Temp. (°C)
35	4244	14/11/2024 13:27	60% DVL Start	1507	23.62	21.25	24.32	25.80	23.11	12.2
35	4258	14/11/2024 13:40	60% DVL End	1507	23.46	21.10	24.17	25.60	22.97	12.2
36	4263	14/11/2024 13:44	30% DVL Start	760	21.79	19.53	22.67	23.86	21.12	12.1
36	4274	14/11/2024 13:55	30% DVL End	758	21.70	19.46	22.56	23.74	21.04	12.1
37	4289	14/11/2024 14:10	0% DVL Start	0	19.68	17.64	20.77	21.56	18.76	11.9
37	4398	14/11/2024 15:58	0% DVL End	0	19.31	17.22	20.39	21.21	18.43	11.1

Figure 2 – Load and Displacement vs. Time

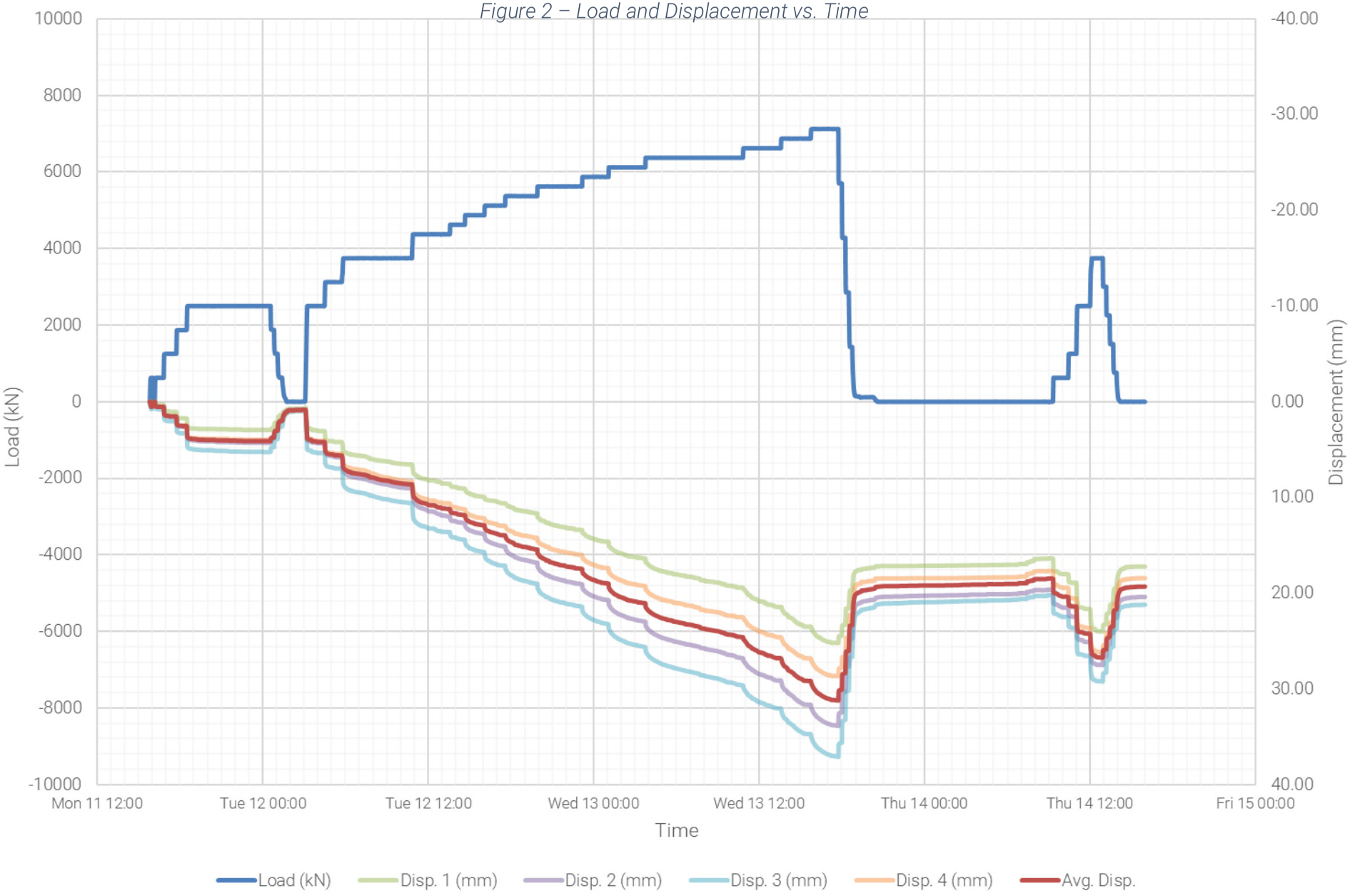
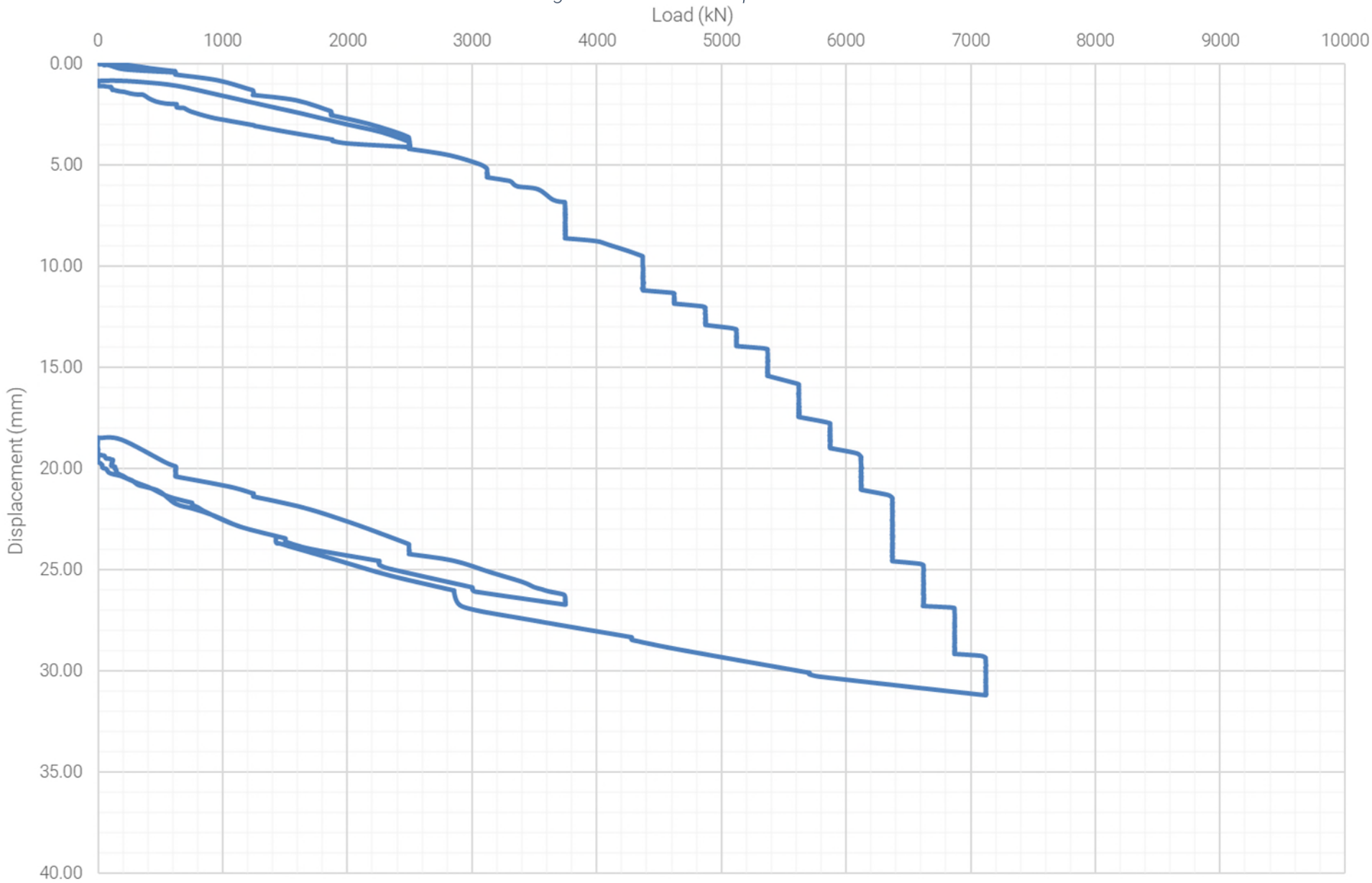


Figure 3 – Load vs. Displacement



Comments and Observations

Comment 1

Cap rotation was observed throughout the test. During increment 23, the client requested the test be downcycled in equal decrements. The following morning, after repositioning the actuator, the pile was reloaded to 100% DVL + 50% F_{REP}. At this stage, the client instructed the test to be curtailed and downcycled once more.

Appendix A. – Soil Strata

Material	Depth (m)
Made Ground	6
River Terrace Depositis	7
London Clay	6
Lambeth Sand/Gravel	7
Lambeth Clay	4

These details are provided by Keltbray.

SOCOTEC UK Limited
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SOCOTEC

CALIBRATION CERTIFICATE

as per Documented In-House Technical Procedure MS90

Certificate Number: LCC-5180

Transducer Serial: PMC1505 **Equipment Type:** Load Cell, Spherical Seat Platen

Digital Readout: RS8 - PMC1342 **Manufacturer:** Woodland Weighing Systems

Date of Calibration: 20/11/2023 **Date of Issue:** 20/11/2023 **Valid Until:** 20/11/2024

CALIBRATION DATA

Reference Load (kN)	Indicated Load (kN) Run 1	Run 2	Run 3	Average (kN)	Uncertainty %
0	0	0	0	0	0
1,500	1,506	1,505	1,508	1,506	1.13
3,000	3,011	3,013	3,011	3,012	1.12
4,500	4,509	4,510	4,511	4,510	1.12
6,000	6,008	6,009	6,009	6,009	1.12
7,500	7,508	7,504	7,508	7,507	1.12
9,000	9,003	9,005	9,005	9,004	1.12
10,500	10,496	10,495	10,496	10,496	1.12
12,000	11,982	11,983	11,984	11,983	1.12
13,500	13,482	13,480	13,479	13,480	1.12
15,000	14,972	14,970	14,969	14,970	1.12
0	0	0	0	0	0

Start Temperature: 19.9°C End Temperature: 19.9°C

CALIBRATION EQUIPMENT

Reference	Serial	Description	Calib. Due
Load	PMC 1501	15 MN Master Load Cell	27/03/2025
Temperature	DT-19	Digital Thermometer	31/08/2025

FACTOR: 8696

OFFSET: 9

Calibrated by: Michael Plummer

Approved by: Steve Turner

CONTROLLED DOCUMENT PMC90T .Results relate only to the item being calibrated

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. Calibration of measurement equipment is not included in the schedule of accreditation for UKAS laboratory number 0001.

SOCOTEC UK Limited
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CALIBRATION CERTIFICATE

as per Documented In-House Technical Procedure MS91

Certificate Number: DTC-7343

Transducer Serial: TLP095 **Equipment Type:** Linear Potentiometric Displacement Transducer

Digital Readout: RS1 **Manufacturer:** Variohm

Date of Calibration: 28/03/2024 **Date of Issue:** 28/03/2024 **Valid Until:** 28/03/2025

CALIBRATION DATA

Reference Disp.(mm)	Indicated Disp. (mm) Run 1	Run 2	Run 3	Average (mm)	Uncertainty (mm)
0.00	0.00	0.00	0.00	0.00	0.01
1.00	1.00	1.00	1.00	1.00	0.01
5.00	5.02	5.02	5.02	5.02	0.01
10.00	10.04	10.04	10.04	10.04	0.01
15.00	15.04	15.04	15.04	15.04	0.01
20.00	20.02	20.02	20.02	20.02	0.01
30.00	30.03	30.03	30.03	30.03	0.01
40.00	40.06	40.06	40.06	40.06	0.01
30.00	30.03	30.03	30.03	30.03	0.01
20.00	20.04	20.04	20.05	20.04	0.01
15.00	15.05	15.05	15.04	15.05	0.01
10.00	10.04	10.04	10.04	10.04	0.01
5.00	5.03	5.03	5.03	5.03	0.01
1.00	1.00	1.00	1.00	1.00	0.01
0.00	0.00	0.00	0.00	0.00	0.01

Start Temperature: 21.3°C End Temperature: 21.4°C

CALIBRATION EQUIPMENT

Reference	Serial	Description	Calib. Due
Displacement	M3	50 mm Digital Micrometer	29/11/2024
Temperature	DT-20	Digital Thermometer	31/08/2025

FACTOR: 51.8352

OFFSET: 0

Calibrated by: Stephen Williams

Approved by: Michael Plummer

CONTROLLED DOCUMENT PMC91T Results relate only to the item being calibrated

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. Calibration of measurement equipment is not included in the schedule of accreditation for UKAS laboratory number 0001.

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CALIBRATION CERTIFICATE

as per Documented In-House Technical Procedure MS91

Certificate Number: DTC-7342

Transducer Serial: TLP096 **Equipment Type:** Linear Potentiometric Displacement Transducer

Digital Readout: RS1 **Manufacturer:** Variohm

Date of Calibration: 28/03/2024 **Date of Issue:** 28/03/2024 **Valid Until:** 28/03/2025

CALIBRATION DATA

Reference Disp.(mm)	Indicated Disp. (mm) Run 1	Run 2	Run 3	Average (mm)	Uncertainty (mm)
0.00	0.00	0.00	0.00	0.00	0.01
1.00	1.01	1.01	1.01	1.01	0.01
5.00	5.03	5.03	5.03	5.03	0.01
10.00	10.04	10.04	10.04	10.04	0.01
15.00	15.05	15.05	15.05	15.05	0.00
20.00	20.00	20.00	20.00	20.00	0.01
30.00	29.99	29.99	29.99	29.99	0.01
40.00	39.83	39.83	39.83	39.83	0.01
30.00	29.99	29.99	29.99	29.99	0.01
20.00	20.01	20.00	20.01	20.01	0.01
15.00	15.05	15.05	15.04	15.05	0.01
10.00	10.05	10.05	10.06	10.05	0.01
5.00	5.04	5.04	5.04	5.04	0.01
1.00	1.01	1.01	1.01	1.01	0.01
0.00	0.00	0.00	0.00	0.00	0.01

Start Temperature: 20.6°C End Temperature: 20.9°C

CALIBRATION EQUIPMENT

Reference	Serial	Description	Calib. Due
Displacement	M3	50 mm Digital Micrometer	29/11/2024
Temperature	DT-20	Digital Thermometer	31/08/2025

FACTOR: 51.636

OFFSET: 0

Calibrated by: Stephen Williams

Approved by: Michael Plummer

CONTROLLED DOCUMENT PMC91T Results relate only to the item being calibrated

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. Calibration of measurement equipment is not included in the schedule of accreditation for UKAS laboratory number 0001.

SOCOTEC UK Limited
Wass Way, Durham Park Industrial Park, Eaglescliffe, TS16 0RG
Incorporated in England : 02880501
www.socotec.co.uk foundations@socotec.com

CALIBRATION CERTIFICATE

as per Documented In-House Technical Procedure MS91

Certificate Number: DTC-7381

Transducer Serial: TLP104 **Equipment Type:** Linear Potentiometric Displacement Transducer

Digital Readout: PMC1238 / 7132 **Manufacturer:** Variohm

Date of Calibration: 07/10/2024 **Date of Issue:** 07/10/2024 **Valid Until:** 07/10/2025

CALIBRATION DATA

Reference Disp.(mm)	Indicated Disp. (mm) Run 1	Run 2	Run 3	Average (mm)	Uncertainty (mm)
0.00	0.00	0.00	0.00	0.00	0.01
1.00	1.00	1.00	1.00	1.00	0.01
5.00	5.01	5.01	5.01	5.01	0.01
10.00	10.00	10.00	10.00	10.00	0.01
15.00	15.01	15.01	15.01	15.01	0.01
20.00	19.99	19.99	19.99	19.99	0.01
30.00	29.99	29.99	29.99	29.99	0.01
40.00	39.95	39.95	39.95	39.95	0.01
30.00	29.99	29.99	29.99	29.99	0.01
20.00	19.99	19.99	19.99	19.99	0.01
15.00	15.01	15.01	15.01	15.01	0.01
10.00	10.01	10.00	10.00	10.00	0.01
5.00	5.02	5.02	5.01	5.02	0.01
1.00	1.00	1.00	1.00	1.00	0.01
0.00	0.00	0.00	0.00	0.00	0.01

Start Temperature: 21.1°C End Temperature: 21.2°C

CALIBRATION EQUIPMENT

Reference	Serial	Description	Calib. Due
Displacement	M3	Digital Micrometer - 50 mm	11/12/2024
Temperature	70230	Digital Thermometer	31/08/2025

FACTOR: 51.814

OFFSET: 0

Calibrated by: Stephen Williams

Approved by: Michael Plummer

CONTROLLED DOCUMENT PMC91T Results relate only to the item being calibrated

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CALIBRATION CERTIFICATE

as per Documented In-House Technical Procedure MS91

Certificate Number: DTC-7328

Transducer Serial: TLP128 **Equipment Type:** Linear Potentiometric Displacement Transducer

Digital Readout: 13653 **Manufacturer:** Variohm

Date of Calibration: 28/02/2024 **Date of Issue:** 28/02/2024 **Valid Until:** 28/02/2025

CALIBRATION DATA

Reference Disp.(mm)	Indicated Disp. (mm) Run 1	Run 2	Run 3	Average (mm)	Uncertainty (mm)
0.00	0.00	0.00	0.00	0.00	0.01
1.00	1.01	1.01	1.01	1.01	0.01
5.00	5.03	5.03	5.03	5.03	0.01
10.00	10.01	10.01	10.02	10.01	0.01
15.00	15.01	15.00	15.01	15.01	0.01
20.00	19.99	19.99	19.99	19.99	0.01
30.00	30.01	30.00	30.01	30.01	0.01
40.00	40.05	40.05	40.05	40.05	0.01
30.00	30.01	30.00	30.00	30.00	0.01
20.00	20.00	19.99	19.99	19.99	0.01
15.00	15.01	14.99	15.01	15.00	0.02
10.00	10.01	10.02	10.02	10.02	0.01
5.00	5.03	5.03	5.03	5.03	0.01
1.00	1.01	1.01	1.01	1.01	0.01
0.00	0.00	0.00	0.00	0.00	0.01

Start Temperature: 22.1°C End Temperature: 22.2°C

CALIBRATION EQUIPMENT

Reference	Serial	Description	Calib. Due
Displacement	M3	50 mm Digital Micrometer	29/11/2024
Temperature	DT-19	Digital Thermometer	31/08/2025

FACTOR: 51.8567

OFFSET: 0

Calibrated by: Shalet Jose

Approved by: Michael Plummer

CONTROLLED DOCUMENT PMC91T Results relate only to the item being calibrated

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. Calibration of measurement equipment is not included in the schedule of accreditation for UKAS laboratory number 0001.