

| TITLE |
|---|
| <p data-bbox="564 333 1007 396">Project Olympus</p> <p data-bbox="595 439 995 479">WORKING PILE LOAD</p> <p data-bbox="635 483 922 524">TEST REPORT</p> <p data-bbox="655 533 917 573">WTP02-No113</p> <p data-bbox="472 593 1203 633">Asite Ref: LCY11-KTB-XX-XX-RP-C-00042</p> <p data-bbox="719 640 880 680">Rev: P01</p> |

| Comment |
|---|
| <p data-bbox="102 860 1481 936">Keltbray have reviewed the pile settlements in the attached report and these are in line with our design assumptions and comply with the project specification requirements</p> |

Pile Load Test Report

SOC-FNDS-MLT-25-098.1

Contract Information

| | | | |
|-----------------------------|---|---------------------------|--------------|
| <i>SOCOTEC UK Reference</i> | FNDS-25-098 | <i>Contract Reference</i> | BE0046 |
| <i>Client</i> | Keltbray | <i>Client Contact</i> | Graham Smith |
| <i>Client Address</i> | St Andrew's House Portsmouth Road Esher Surrey KT10 9TA | | |
| <i>Site Address</i> | 54A North Woolwich Road Silvertown London E16 2AA | | |

Abstract

This report describes the load testing carried out by SOCOTEC UK at Project Olympus on WTP2-no113. 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 | 2421 | 3.22 | 0.27 |
| 100% DVL + 50% F _{REP} | 3629 | 6.68 | 1.28 |

Revision History

| Revision | Report Date | Issue Date | Author | Verifier | Revision Details |
|----------|-------------|------------|--------|----------|------------------|
| 1 | 28/04/2025 | 28/04/2025 | VST | DM | Initial Document |
| | | | | | |

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Introduction

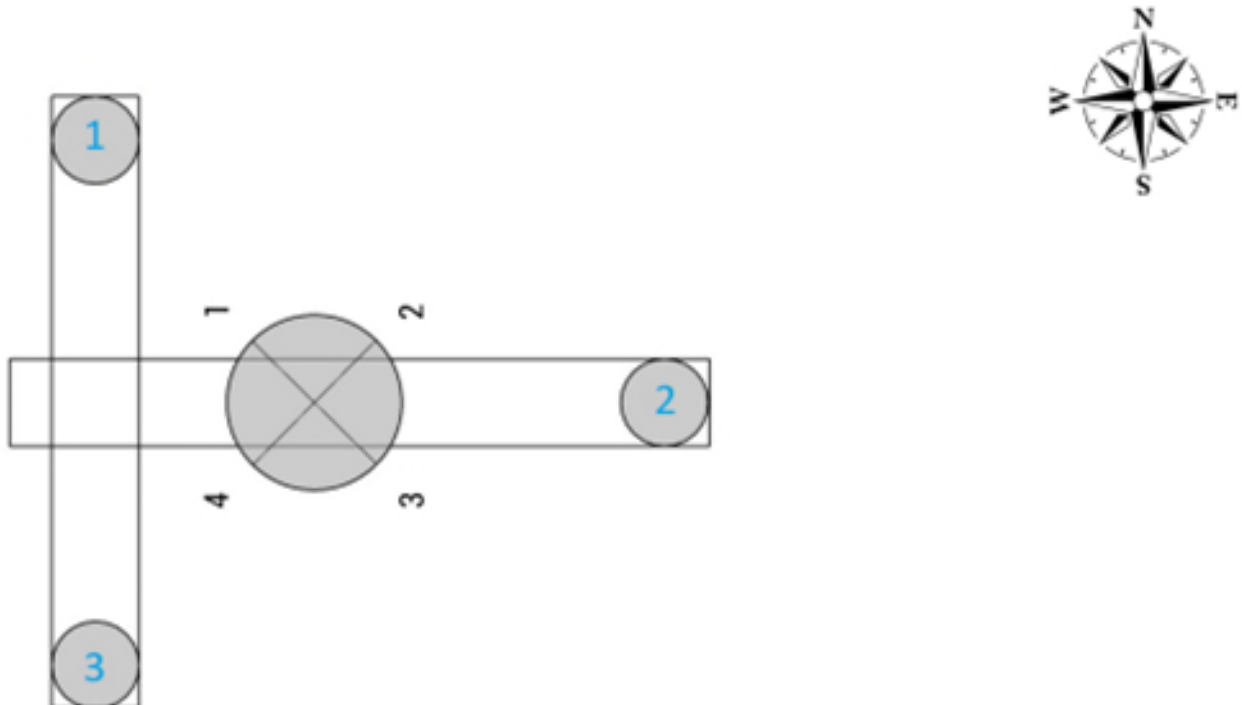
SOCOTEC UK were employed by Keltbray to undertake a Maintained Load Test at Project Olympus between the dates of 24/04/2025 and 25/04/2025. A 600 mm diameter pile designated WTP2-no113 was installed to a depth of 30.51 m by Keltbray on 31/03/2025 using a continuous flight auger method. The pile was tested in vertical compression to a maximum load of 3,629 kN following ICE SPERW 3rd Edition.

SOCOTEC UK utilised an S450 reaction frame built above the test pile. Load was applied to the test pile using an 8800 kN hydraulic actuator and monitored using a 5000 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 + 50% F_{REP} . The loading increments are shown in Table 1.

DVL = 2,421 kN

F_{REP} = 2,416 kN

Table 1 – Loading Increments

| Increment | DVL % | F_{REP} % | Load (kN) | Minimum Hold Time (min) |
|-----------|-------|-------------|-----------|-------------------------|
| 1 | 25 | 0 | 605 | 30 |
| 2 | 50 | 0 | 1211 | 30 |
| 3 | 75 | 0 | 1816 | 30 |
| 4 | 100 | 0 | 2421 | 360 |
| 5 | 75 | 0 | 1816 | 10 |
| 6 | 50 | 0 | 1211 | 10 |
| 7 | 25 | 0 | 605 | 10 |
| 8 | 0 | 0 | 0 | 60 |
| 9 | 100 | 0 | 2421 | 60 |
| 10 | 100 | 25 | 3025 | 60 |
| 11 | 100 | 50 | 3629 | 360 |
| 12 | 100 | 25 | 3025 | 10 |
| 13 | 100 | 0 | 2421 | 10 |
| 14 | 75 | 0 | 1816 | 10 |
| 15 | 50 | 0 | 1211 | 10 |
| 16 | 25 | 0 | 605 | 10 |
| 17 | 0 | 0 | 0 | 60 |

Summary of Results - Pile Head

Table 2 – Pile Head Results Summary

| Time | Increment | Load (kN) | Average Disp. (mm) | Disp. 1 (mm) | Disp. 2 (mm) | Disp. 3 (mm) | Disp. 4 (mm) | Temp. (°C) |
|------------------|----------------|-----------|--------------------|--------------|--------------|--------------|--------------|------------|
| 24/04/2025 16:02 | 0% DVL | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.7 |
| 24/04/2025 16:04 | 25% DVL Start | 602 | 0.34 | 0.33 | 0.40 | 0.37 | 0.25 | 17.7 |
| 24/04/2025 16:40 | 25% DVL End | 604 | 0.44 | 0.42 | 0.49 | 0.48 | 0.37 | 18.0 |
| 24/04/2025 16:41 | 50% DVL Start | 1202 | 1.21 | 1.10 | 1.25 | 1.31 | 1.15 | 18.0 |
| 24/04/2025 17:35 | 50% DVL End | 1211 | 1.29 | 1.19 | 1.34 | 1.40 | 1.21 | 18.1 |
| 24/04/2025 17:36 | 75% DVL Start | 1812 | 1.96 | 1.82 | 2.05 | 2.09 | 1.87 | 18.0 |
| 24/04/2025 18:10 | 75% DVL End | 1813 | 2.03 | 1.91 | 2.11 | 2.15 | 1.95 | 17.6 |
| 24/04/2025 18:12 | 100% DVL Start | 2419 | 2.73 | 2.57 | 2.83 | 2.90 | 2.62 | 17.5 |
| 25/04/2025 00:15 | 100% DVL End | 2419 | 3.22 | 3.03 | 3.26 | 3.39 | 3.20 | 9.3 |
| 25/04/2025 00:16 | 75% DVL Start | 1825 | 2.82 | 2.65 | 2.83 | 2.95 | 2.84 | 9.3 |
| 25/04/2025 00:30 | 75% DVL End | 1825 | 2.80 | 2.63 | 2.81 | 2.93 | 2.82 | 9.2 |
| 25/04/2025 00:31 | 50% DVL Start | 1218 | 2.15 | 1.98 | 2.15 | 2.28 | 2.18 | 9.2 |
| 25/04/2025 00:45 | 50% DVL End | 1218 | 2.09 | 1.92 | 2.09 | 2.23 | 2.13 | 9.1 |
| 25/04/2025 00:47 | 25% DVL Start | 614 | 1.32 | 1.15 | 1.31 | 1.45 | 1.37 | 9.1 |
| 25/04/2025 01:00 | 25% DVL End | 613 | 1.25 | 1.08 | 1.23 | 1.37 | 1.30 | 8.9 |
| 25/04/2025 01:06 | 0% DVL Start | 0 | 0.45 | 0.29 | 0.45 | 0.52 | 0.53 | 8.8 |

| Time | Increment | Load (kN) | Average Disp. (mm) | Disp. 1 (mm) | Disp. 2 (mm) | Disp. 3 (mm) | Disp. 4 (mm) | Temp. (°C) |
|------------------|---------------------------------------|-----------|--------------------|--------------|--------------|--------------|--------------|------------|
| 25/04/2025 02:15 | 0% DVL End | 0 | 0.27 | 0.12 | 0.26 | 0.33 | 0.36 | 8.4 |
| 25/04/2025 02:29 | 100% DVL Start | 2421 | 2.95 | 2.73 | 3.03 | 3.15 | 2.88 | 8.3 |
| 25/04/2025 03:30 | 100% DVL End | 2419 | 3.27 | 3.05 | 3.35 | 3.48 | 3.20 | 7.7 |
| 25/04/2025 03:41 | 100% DVL + 25% F _{REP} Start | 3016 | 3.99 | 3.73 | 4.01 | 4.20 | 4.01 | 7.5 |
| 25/04/2025 05:05 | 100% DVL + 25% F _{REP} End | 3025 | 4.34 | 4.05 | 4.37 | 4.57 | 4.38 | 18.6 |
| 25/04/2025 05:13 | 100% DVL + 50% F _{REP} Start | 3621 | 5.27 | 4.98 | 5.32 | 5.52 | 5.28 | 19.5 |
| 25/04/2025 11:15 | 100% DVL + 50% F _{REP} End | 3628 | 6.68 | 6.43 | 6.67 | 6.85 | 6.77 | 16.8 |
| 25/04/2025 11:19 | 100% DVL + 25% F _{REP} Start | 3035 | 6.27 | 6.03 | 6.22 | 6.42 | 6.40 | 16.8 |
| 25/04/2025 11:30 | 100% DVL + 25% F _{REP} End | 3034 | 6.16 | 5.93 | 6.11 | 6.31 | 6.28 | 16.5 |
| 25/04/2025 11:34 | 100% DVL Start | 2429 | 5.59 | 5.32 | 5.56 | 5.75 | 5.71 | 16.4 |
| 25/04/2025 11:45 | 100% DVL End | 2430 | 5.42 | 5.18 | 5.40 | 5.61 | 5.51 | 16.1 |
| 25/04/2025 11:46 | 75% DVL Start | 1819 | 4.78 | 4.54 | 4.70 | 4.95 | 4.92 | 16.0 |
| 25/04/2025 12:00 | 75% DVL End | 1817 | 4.64 | 4.38 | 4.58 | 4.84 | 4.75 | 15.9 |
| 25/04/2025 12:01 | 50% DVL Start | 1215 | 3.91 | 3.65 | 3.83 | 4.06 | 4.11 | 15.9 |
| 25/04/2025 12:15 | 50% DVL End | 1214 | 3.80 | 3.53 | 3.78 | 3.95 | 3.96 | 16.3 |
| 25/04/2025 12:17 | 25% DVL Start | 610 | 2.90 | 2.62 | 2.88 | 3.07 | 3.05 | 16.4 |
| 25/04/2025 12:30 | 25% DVL End | 609 | 2.75 | 2.47 | 2.74 | 2.90 | 2.89 | 16.7 |
| 25/04/2025 12:37 | 0% DVL Start | 0 | 1.74 | 1.48 | 1.72 | 1.91 | 1.84 | 16.7 |
| 25/04/2025 14:00 | 0% DVL End | 0 | 1.28 | 1.02 | 1.34 | 1.50 | 1.27 | 16.3 |

Figure 2 – Load and Displacement vs. Time

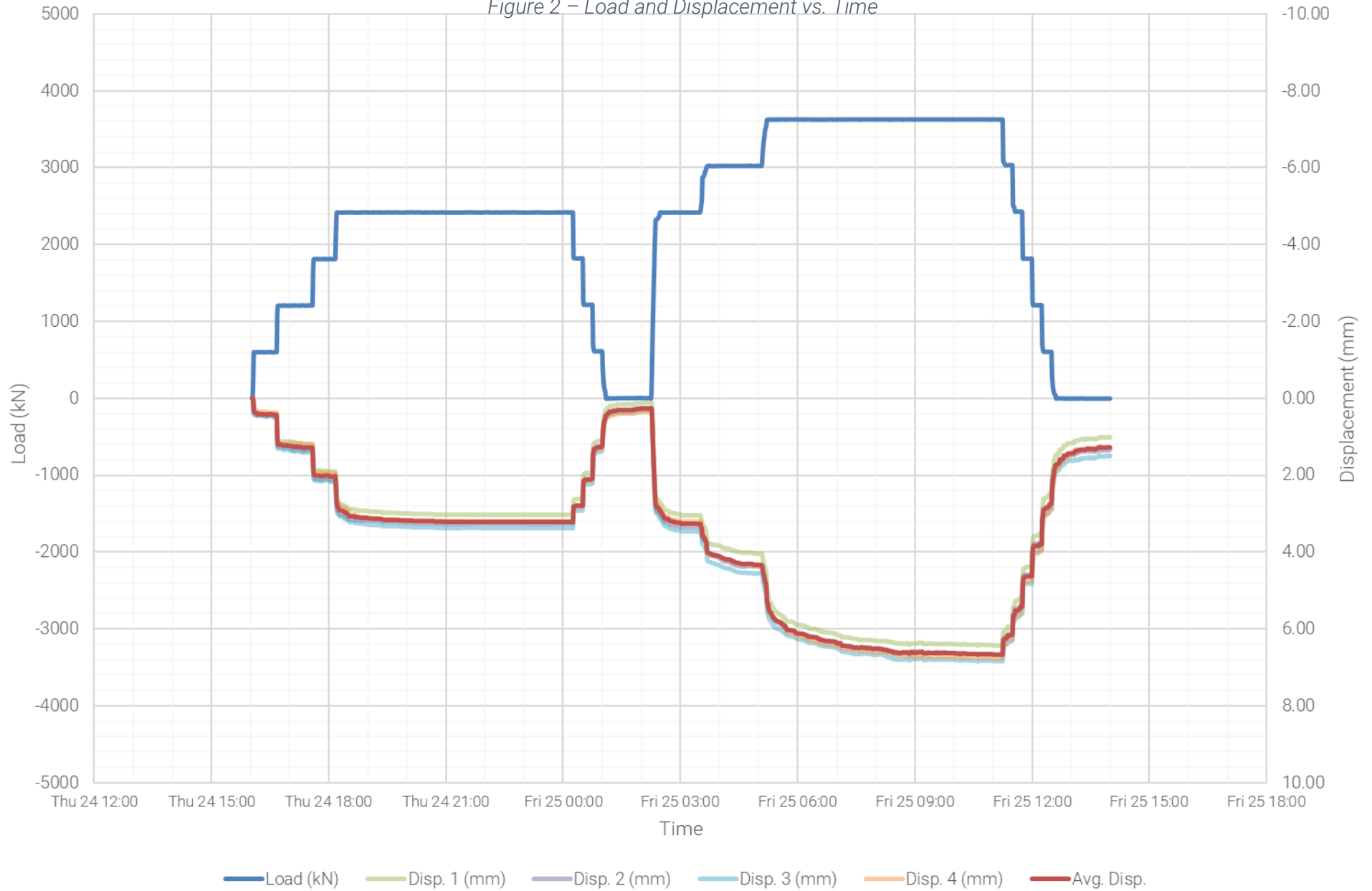
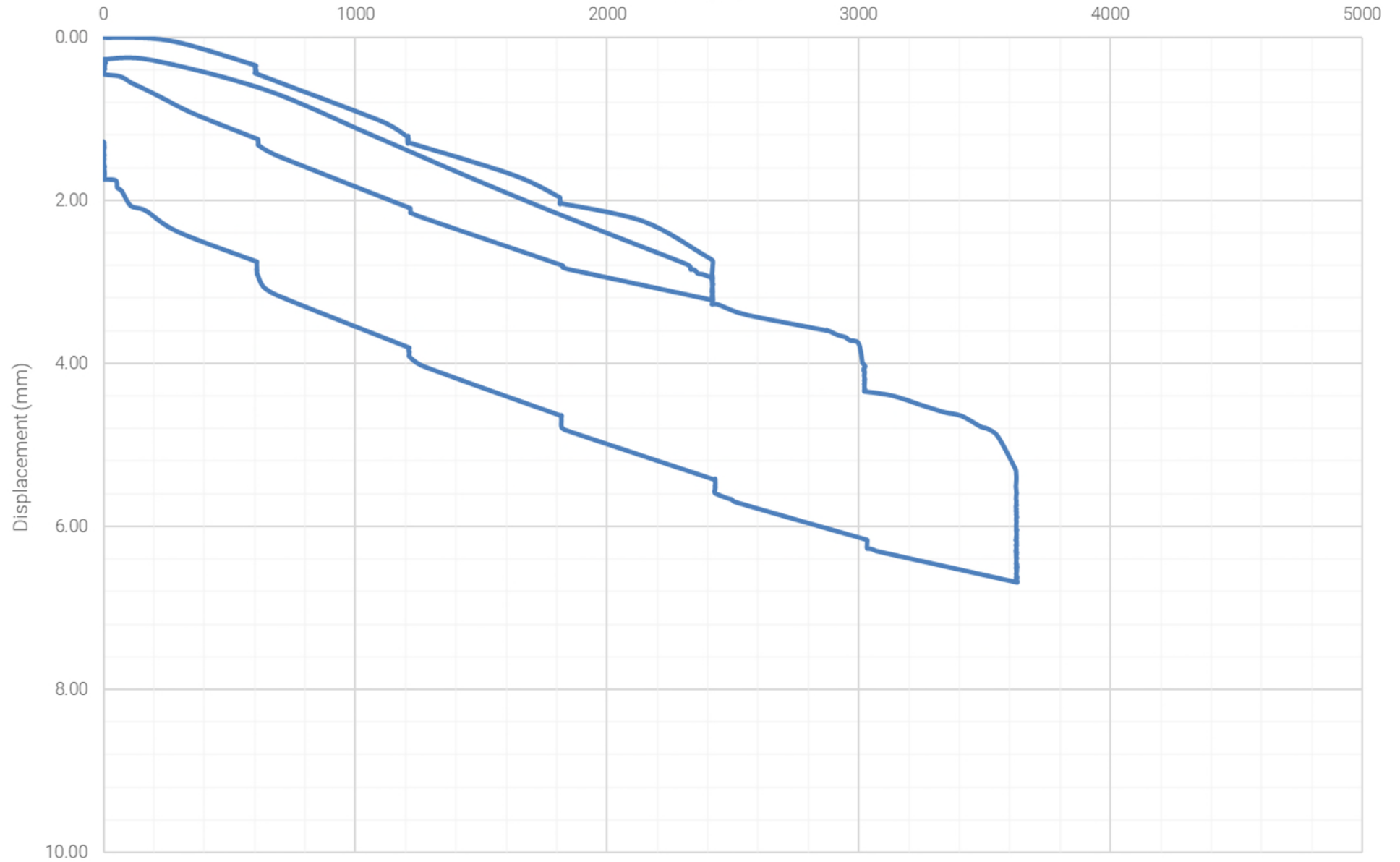


Figure 3 – Load vs. Displacement
Load (kN)



Appendix A. - Soil Strata

| Material | Depth (m) |
|---------------------|-----------|
| Made Ground | 3 |
| Alluvium/Peat | 4 |
| RTG | 5.5 |
| London Clay | 6 |
| Harwich Formation | 1 |
| Lambeth Sand/Gravel | 5.5 |
| Lambeth Clay | 4 |
| Thanet Sands | 5+ |

These details are provided by Keltbray.

CALIBRATION CERTIFICATE

as per Documented In-House Technical Procedure MS90

Certificate Number: LCC-5195

Transducer Serial: PMC502

Equipment Type: Load Cell, Spherical Seat Platen

Digital Readout: 20103

Manufacturer: Woodland Weighing Systems

Date of Calibration: 27/08/2024

Date of Issue: 27/08/2024

Valid Until: 27/08/2025

CALIBRATION DATA

| Reference Load (kN) | Indicated Load (kN) | | | Average (kN) | Uncertainty % |
|---------------------|---------------------|-------|-------|--------------|---------------|
| | Run 1 | Run 2 | Run 3 | | |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 500 | 503 | 503 | 504 | 503 | 1.15 |
| 1,000 | 1,009 | 1,004 | 1,008 | 1,007 | 1.18 |
| 1,500 | 1,506 | 1,503 | 1,509 | 1,506 | 1.17 |
| 2,000 | 2,005 | 2,004 | 2,006 | 2,005 | 1.15 |
| 2,500 | 2,502 | 2,500 | 2,503 | 2,502 | 1.15 |
| 3,000 | 2,999 | 2,997 | 2,999 | 2,998 | 1.15 |
| 3,500 | 3,496 | 3,495 | 3,498 | 3,496 | 1.15 |
| 4,000 | 3,986 | 3,984 | 3,987 | 3,986 | 1.15 |
| 4,500 | 4,479 | 4,483 | 4,484 | 4,482 | 1.15 |
| 5,000 | 4,972 | 4,975 | 4,974 | 4,974 | 1.15 |
| 0 | 0 | 0 | 0 | 0 | 0 |

Start Temperature: 19°C End Temperature: 19°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: 2355

OFFSET: 70.00449

Calibrated by: Ross Lazenby

Approved by: Michael Plummer




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.

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CALIBRATION CERTIFICATE

as per Documented In-House Technical Procedure MS91

Certificate Number: DTC-7411

Transducer Serial: TLP002 **Equipment Type:** Linear Potentiometric Displacement Transducer
Digital Readout: 20103 **Manufacturer:** Penny & Giles
Date of Calibration: 08/01/2025 **Date of Issue:** 08/01/2025 **Valid Until:** 08/01/2026

CALIBRATION DATA

| Reference Disp.(mm) | Indicated Disp. (mm) | | | Average (mm) | Uncertainty (mm) |
|------------------------|----------------------|-------|-------|-----------------|---------------------|
| | Run 1 | Run 2 | Run 3 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 1.00 | 0.99 | 0.99 | 0.99 | 0.00 |
| 5.00 | 4.98 | 4.97 | 4.97 | 4.97 | 0.00 |
| 10.00 | 9.99 | 9.99 | 9.99 | 9.99 | 0.00 |
| 15.00 | 15.01 | 15.01 | 15.01 | 15.01 | 0.00 |
| 20.00 | 19.99 | 19.99 | 19.99 | 19.99 | 0.00 |
| 30.00 | 30.03 | 30.03 | 30.02 | 30.03 | 0.00 |
| 40.00 | 40.05 | 40.04 | 40.05 | 40.05 | 0.00 |
| 30.00 | 30.02 | 30.02 | 30.03 | 30.02 | 0.00 |
| 20.00 | 19.98 | 19.99 | 19.98 | 19.98 | 0.00 |
| 15.00 | 15.01 | 15.00 | 15.00 | 15.00 | 0.00 |
| 10.00 | 9.99 | 9.99 | 9.99 | 9.99 | 0.00 |
| 5.00 | 4.97 | 4.97 | 4.97 | 4.97 | 0.00 |
| 1.00 | 0.99 | 0.99 | 0.99 | 0.99 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Start Temperature: 20.1°C End Temperature: 20.3°C

CALIBRATION EQUIPMENT

| Reference | Serial | Description | Calib. Due |
|--------------|--------|--------------------------|------------|
| Displacement | M3 | 50 mm Digital Micrometer | 12/12/2025 |
| Temperature | DT-19 | Digital Thermometer | 31/08/2025 |

FACTOR: 49.6916

OFFSET: 0

Calibrated by: John Gaynor

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%.
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CALIBRATION CERTIFICATE

as per Documented In-House Technical Procedure MS91

Certificate Number: DTC-7453

Transducer Serial: TLP028 **Equipment Type:** Linear Potentiometric Displacement Transducer
Digital Readout: 13653 **Manufacturer:** Penny & Giles
Date of Calibration: 10/04/2025 **Date of Issue:** 10/04/2025 **Valid Until:** 10/04/2026

CALIBRATION DATA

| Reference Disp.(mm) | Indicated Disp. (mm) | | | Average (mm) | Uncertainty (mm) |
|------------------------|----------------------|-------|-------|-----------------|---------------------|
| | Run 1 | Run 2 | Run 3 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 1.00 | 0.99 | 0.99 | 0.99 | 0.00 |
| 5.00 | 5.01 | 5.01 | 5.01 | 5.01 | 0.00 |
| 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 |
| 15.00 | 15.05 | 15.05 | 15.05 | 15.05 | 0.00 |
| 20.00 | 20.04 | 20.04 | 20.04 | 20.04 | 0.00 |
| 30.00 | 30.05 | 30.04 | 30.04 | 30.04 | 0.00 |
| 40.00 | 39.98 | 39.99 | 39.99 | 39.99 | 0.00 |
| 30.00 | 30.05 | 30.06 | 30.06 | 30.06 | 0.00 |
| 20.00 | 20.04 | 20.04 | 20.04 | 20.04 | 0.00 |
| 15.00 | 15.05 | 15.05 | 15.05 | 15.05 | 0.00 |
| 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 0.00 |
| 5.00 | 5.01 | 5.01 | 5.02 | 5.01 | 0.00 |
| 1.00 | 0.99 | 1.00 | 1.00 | 1.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Start Temperature: 20.2°C End Temperature: 20.6°C

CALIBRATION EQUIPMENT

| Reference | Serial | Description | Calib. Due |
|--------------|--------|--------------------------|------------|
| Displacement | M4 | 50 mm Digital Micrometer | 27/09/2025 |
| Temperature | 70230 | Digital Thermometer | 28/10/2025 |

FACTOR: 49.6944

OFFSET: 0

Calibrated by: Stephen Williams

Approved by: Michael Plummer




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CALIBRATION CERTIFICATE

as per Documented In-House Technical Procedure MS91

Certificate Number: DTC-7371

Transducer Serial: TLP040 **Equipment Type:** Linear Potentiometric Displacement Transducer
Digital Readout: PMC1843 / 20102 **Manufacturer:** Penny & Giles
Date of Calibration: 08/08/2024 **Date of Issue:** 08/08/2024 **Valid Until:** 08/08/2025

CALIBRATION DATA

| Reference Disp.(mm) | Indicated Disp. (mm) | | | Average (mm) | Uncertainty (mm) |
|------------------------|----------------------|-------|-------|-----------------|---------------------|
| | Run 1 | Run 2 | Run 3 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 1.00 | 1.03 | 1.03 | 1.03 | 1.03 | 0.01 |
| 5.00 | 5.02 | 5.02 | 5.02 | 5.02 | 0.01 |
| 10.00 | 9.97 | 9.97 | 9.97 | 9.97 | 0.01 |
| 15.00 | 14.95 | 14.95 | 14.95 | 14.95 | 0.00 |
| 20.00 | 20.02 | 20.01 | 20.01 | 20.01 | 0.01 |
| 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 0.01 |
| 40.00 | 39.98 | 39.98 | 39.98 | 39.98 | 0.01 |
| 30.00 | 30.00 | 29.99 | 29.99 | 29.99 | 0.01 |
| 20.00 | 20.02 | 20.02 | 20.02 | 20.02 | 0.01 |
| 15.00 | 14.95 | 14.95 | 14.95 | 14.95 | 0.00 |
| 10.00 | 9.98 | 9.98 | 9.98 | 9.98 | 0.01 |
| 5.00 | 5.03 | 5.03 | 5.03 | 5.03 | 0.01 |
| 1.00 | 1.05 | 1.04 | 1.04 | 1.04 | 0.01 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |

Start Temperature: 19.9°C End Temperature: 19.6°C

CALIBRATION EQUIPMENT

| Reference | Serial | Description | Calib. Due |
|--------------|--------|----------------------------|------------|
| Displacement | M3 | Digital Micrometer - 50 mm | 11/12/2024 |
| Temperature | DT-19 | Digital Thermometer | 31/08/2025 |

FACTOR: 49.9215

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-7449

Transducer Serial: TLP051 **Equipment Type:** Linear Potentiometric Displacement Transducer
Digital Readout: 13653 **Manufacturer:** Penny & Giles
Date of Calibration: 09/04/2025 **Date of Issue:** 09/04/2025 **Valid Until:** 09/04/2026

CALIBRATION DATA

| Reference Disp.(mm) | Indicated Disp. (mm) | | | Average (mm) | Uncertainty (mm) |
|------------------------|----------------------|-------|-------|-----------------|---------------------|
| | Run 1 | Run 2 | Run 3 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.99 | 0.99 | 0.99 | 0.99 | 0.00 |
| 5.00 | 5.01 | 5.01 | 5.01 | 5.01 | 0.00 |
| 10.00 | 9.99 | 9.99 | 9.99 | 9.99 | 0.00 |
| 15.00 | 14.97 | 14.97 | 14.97 | 14.97 | 0.00 |
| 20.00 | 19.95 | 19.96 | 19.95 | 19.95 | 0.00 |
| 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 0.00 |
| 40.00 | 39.97 | 39.97 | 39.97 | 39.97 | 0.00 |
| 30.00 | 30.00 | 30.00 | 30.00 | 30.00 | 0.00 |
| 20.00 | 19.95 | 19.96 | 19.96 | 19.96 | 0.00 |
| 15.00 | 14.97 | 14.97 | 14.97 | 14.97 | 0.00 |
| 10.00 | 9.99 | 9.99 | 9.99 | 9.99 | 0.00 |
| 5.00 | 5.01 | 5.01 | 5.01 | 5.01 | 0.00 |
| 1.00 | 0.99 | 0.99 | 0.99 | 0.99 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Start Temperature: 20.50°C End Temperature: 20.5°C

CALIBRATION EQUIPMENT

| Reference | Serial | Description | Calib. Due |
|--------------|--------|--------------------------|------------|
| Displacement | M4 | 50 mm Digital Micrometer | 27/09/2025 |
| Temperature | 70230 | Digital Thermometer | 28/10/2025 |

FACTOR: 49.7206

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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