



**Inspection Test Plan**

|                         |                  |                                   |                   |                    |             |                                   |                   |  |                     |
|-------------------------|------------------|-----------------------------------|-------------------|--------------------|-------------|-----------------------------------|-------------------|--|---------------------|
| <b>Project</b>          |                  | Project Olympus                   |                   |                    |             | <b>Inspection Authorities</b>     |                   |  |                     |
| <b>Package</b>          |                  | CFA                               | <b>Package No</b> |                    |             | Keltbray                          |                   |  |                     |
| <b>Contractor</b>       |                  | Keltbray                          |                   |                    |             | <b>Principle Contractor (PC)</b>  |                   |  | McLaren             |
| <b>Work Package</b>     |                  | CFA Piling                        |                   |                    |             | <b>Client</b>                     |                   |  | GLP                 |
| <b>Location</b>         |                  | North Woolwich Rd, London E16 2AB |                   |                    |             | <b>Architect/Engineer</b>         |                   |  | Burrows Graham/TTSP |
| <b>Revision Details</b> |                  |                                   |                   |                    |             | <b>Others (e.g. Fire Officer)</b> |                   |  |                     |
| <b>Rev</b>              | <b>Amendment</b> | <b>Originator</b>                 | <b>Date</b>       | <b>Approved By</b> | <b>Date</b> | <b>Inspection Codes</b>           |                   |  |                     |
| 00                      | Original         | Noora Ali                         | 04/04/24          | G Smith            | 07/04/25    | H                                 | Hold Point        | N  | Notification Point  |
|                         |                  |                                   |                   |                    |             | F                                 | First time only   | A  | Approval Required   |
|                         |                  |                                   |                   |                    |             | I                                 | Information Only  | R  | Random Inspection   |
|                         |                  |                                   |                   |                    |             | R1                                | Daily Inspections | R10  | 10% Inspections     |
|                         |                  |                                   |                   |                    |             | R20                               | 20% Inspections   |  |                     |
|                         |                  |                                   |                   |                    |             | <b>Document Code</b>              |                   |  |                     |
|                         |                  |                                   |                   |                    |             | Principle Contractor (PC)         |                   | Project Record to be held by PC  |                     |
|                         |                  |                                   |                   |                    |             | Keltbray (KLT)                    |                   | Record to be held by Keltbray  |                     |
|                         |                  |                                   |                   |                    |             | Remarks                           |                   | Keltbray to indicate if documents to be submitted to PC or Client at end of contract |                     |

| Project Olympus |                                     |   |  |               |                     |  | Inspection & Test Plan Number                           |         |             |   |     |        |   |
|-----------------|-------------------------------------|---|--|---------------|---------------------|--|---|---------|-------------|---|-----|--------|---|
| Item            | Operation /Activity (On & Off Site) | Contract Spec. & Clauses  | Inspection Method  | By Whom       | Frequency           | Acceptance Criteria  | Verifying   |         | Inspection  |   |     |        | Remarks   |
|                 |                                     |   |  |               |                     |  | Description   | Held By | Keltbray/PC | C | A/E | Others |   |
| Preliminary     |                                     |   |  |               |                     |  |   |         |             |   |     |        |   |
| 1               | Subcontractor approval              | N/A   | Check approved subcontractors and suppliers list   | PM            | Prior to commencing | On list  | Correspondence  | KB      | H           |   |     |        |   |
| 2               | Approval of material suppliers      | BS4449<br>BS5328  | Check approved subcontractors and suppliers list. Calibration Certificates of material certificates reviewed | PM            | Prior to commencing | On list  | Contract specification<br>Permit To Load                | KB      | H           |   |     |        | CARES<br>QSRMC<br>UKAS                              |
| 5               | WTP Design Approval                 | WTP Design Report   | Client and Engineer review   | PM            | Before works start  | N/A  | Client approval   | KB      | H & A       |   | A   |        | Via Asite   |
| 6               | Loading Schedule                    | WTP Design Report   | PM and Designer review   | Designer      | Before works start  | N/A  | Client approval   | KB      | H           |   |     |        | Via Asite   |
| 6               | Concrete Strength                   | ICE SPERW 3rd Ed B21.2.1, B21.10.5, B21.8.4 See Table B21.3, BS 8500, | Compressive strength test carried out on cubes crushed at a UKAS approved laboratory                         | PM            | Before works start  | Piles and anchors have reached design strength<br>Cubes at 40N min | Socotec test request sheets<br>Permit To Load Test Pile | KB      | H           |   |     |        | Form Ref KEL-PQE-FRT-008 - Permit to Load Test Pile |
| Load Testing    |                                     |   |  |               |                     |  |   |         |             |   |     |        |   |
| 1               | Integrity Testing                   | I.C.E SPERW 3rd Edition B15, B15.7, B15.8, B15.9                      | Report   | Subcontractor | Each WTP            | Pass – pile is structurally sound with no anomalies present        | Report  | KB      |             |   |     |        | Report to be issue via Asite                        |
| 2               | Test pile cap inspection            |   | Visual inspection and as-built measurements  | PM/ Eng       | Each WTP            | Test cap free of defects or voids                                  | Permit to load  | KB      |             |   |     |        |   |

|   |                             |  |  |     |          |  |                  |    |  |  |  |  |   |
|---|-----------------------------|--|--|-----|----------|--|------------------|----|--|--|--|--|---|
| 3 | Setting out of loading jack |  | Loading jack to be positioned centrally to the as-built position of the pile | Eng | Each WTP | Jack positioned centre of as-built pile position   | Permit to load   | KB |  |  |  |  |   |
| 4 | Test Frame Setup            |  | Visual inspection of test frame setup  | PM  | Each WTP | Test Frame erected properly  | Permit to Load   | KB |  |  |  |  | Socotec to issue frame erection check sheet KB then KB to issue permit to load. |
| 5 | Working Load Tests          | Project Piling Specification<br>Cundall doc ref<br>LCY10-CDL-XX-XX-SP-GE-50001 | Report   | PM  | Each WTP | 450mm: 6mm at DVL,<br>10mm at DVL + 50%<br>$F_{rep}$<br>600mm: 6mm at DVL,<br>10mm at DVL + 50%<br>$F_{rep}$<br>750mm: 7mm at DVL,<br>10mm at DVL + 50%<br>$F_{rep}$<br>900mm: 8mm at DVL,<br>12mm at DVL + 50%<br>$F_{rep}$ | Load Test Report | KB |  |  |  |  |   |

## Permit to Load Test pile

### Section A - Test Pile– Permit to Load

|                  |                 |                   |   |
|------------------|-----------------|-------------------|---|
| Contract Name:   | Project Olympus | Contract Address: | 54A North Woolwich Road, Silvertown,<br>London E16 "AA" |
| Contract Number: | BE0046          |                   |   |
| Date:            |                 | Permit No:        |   |

| Summary Schedule Ref: | Pile Location | Test Frame Capacity | Date & Time |
|-----------------------|---------------|---------------------|-------------|
|                       |               | MN                  |             |

**The following documents and information have been inspected by Keltbray and sub-contractor: All boxes must be ticked yes and concrete strength attained minimum required**

|   | YES | NO |                                     | YES               | NO |
|---|-----|----|-------------------------------------|-------------------|----|
| Sub-Contractor Action Plan                    |     |    | Calibration Certificates            |                   |    |
| Lifting Equipment Schedule                    |     |    | Lift Plan                           |                   |    |
| Cube Results                                  |     |    | N/mm <sup>2</sup>                   |                   |    |
|   |     |    | Minimum strength required:          | N/mm <sup>2</sup> |    |
| Load Plan agreed                              |     |    | Ref.:                               |                   |    |
| Physical Inspection of Test Frame carried out |     |    | Sub-Contractor Check Sheet attached |                   |    |

### Section B - Inspection by Project Manager

I have physically and thoroughly inspected the Test Frame as per the details above and am satisfied that the element or system can be loaded. It is constructed as per design.

| Job Title | Print Name | Signature | Date |
|-----------|------------|-----------|------|
|           |            |           |      |

### Section C - Loading/Erecting Sub-Contractor

I have physically and thoroughly inspected the Test Frame as per the details above and am satisfied that the element or system can be loaded. It is constructed as per design.

| Job Title | Print Name | Signature | Date |
|-----------|------------|-----------|------|
|           |            |           |      |

### Section D - Load Test Complete

I can confirm that the load test is now complete and the test frame can be dismantled

|                 |            |  |           |  |      |  |
|-----------------|------------|--|-----------|--|------|--|
| Keltbray Piling | Print Name |  | Signature |  | Date |  |
| Sub-Contractor  | Print Name |  | Signature |  | Date |  |

| INSPECTION & TEST PLAN (Guide to information required in each column) |   |
|---|---|
| <b>Operation /Activity</b>  | Principle activities to be carried out e.g. Compliance with Clients legislation /Spec's/Plans normal sequence of works incl. benchmark samples, etc   |
| <b>Contract Specification &amp; Clause No</b>                         | Principle activities to be carried out e.g. Compliance with Clients legislation /Spec's/Plans normal sequence of works incl. benchmark samples, etc   |
| <b>Inspection Method</b>  | e.g. visual, dimensional check, specified test, sample etc.   |
| <b>By Whom</b>  | Person who is qualified to, and carries out the inspection e.g. Keltbray Foremen, Engineer  |
| <b>Frequency</b>  | Frequency of inspection activity - e.g. each column, 10 % , daily etc.  |
| <b>Acceptance Criteria</b>  | Reference to acceptance level e.g. BS 5135, specification clause number etc., also note if this needs to be by Independent Body.<br><b>(e.g. +/- 3mm over 3m straight edge or +/- 10 microns on paint thickness)</b>  |
| <b>Verifying Spec / Documents</b>                                     | Keltbrays procedure/method statement used to control the inspection/test and the records produced to demonstrate compliance.<br><b>(N.B. Copies of their blank example record sheets to be attached)</b>              |
| <b>Inspection Authority &amp; Codes</b>                               | Insert a code from those listed on Sheet 1 in the appropriate column for the Inspection Authority. Keltbray only fills in his inspection in the Keltbray column. PC / Client / Architect / Engineer fill in remainder |
| <b>Remarks</b>  | Use as required (i.e. Note of Benchmark to be signed off by PC  |

**NOTE**

1. Keltbray is to complete all columns with the exception of those for Pc and Client / Architect / Engineers inspection points. PC to complete these.
2. PC to advise Keltbray on any PC standard forms to be used.