# SITE AIR TEST CERTIFICATE

APEC ENVIRONMENTAL

Email: info@apecuk.com Web: www.apecuk.com

9 Telford Court, Dunkirk Lea, Chester Gates, Chester, CH1 6LT. Tel: 01244 851753 Fax: 01244 851752

UKAS TESTING 2136

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| Site Air Test Certificate Ref: | ST/23/10/10/AA1 | Date of Issue: | 10/10/2023 | Page 1 of 4 |
|---|---|---|---|---|

**Note:** Inspection undertaken in accordance with APEC in-house Methods QCRF2, OH1 and OH2, based on the HSE publication HSG 248 'The Analysts Guide'

| Site: | Client: | Contractor: |
|---|---|---|
| 87<br>Rochdale Road<br>Manchester<br>Lancashire<br>M4 4HY | Chartrange<br>Chartrange<br>Wharf Street<br>Dukinfield<br>Cheshire<br>SK16 4NJ | Chartrange<br>Chartrange<br>Wharf Street<br>Dukinfield<br>Cheshire<br>SK16 4NJ |
| **Contact:** NA | **Contact:** James Kennedy | **Contact:** N/A |

**Samples taken by (APEC)**

| Analyst | Andy Alker | Signed by (APEC) | | Date | 10/10/2023 |
|---|---|---|---|---|---|

**Air Testing**

**Purpose of Test**

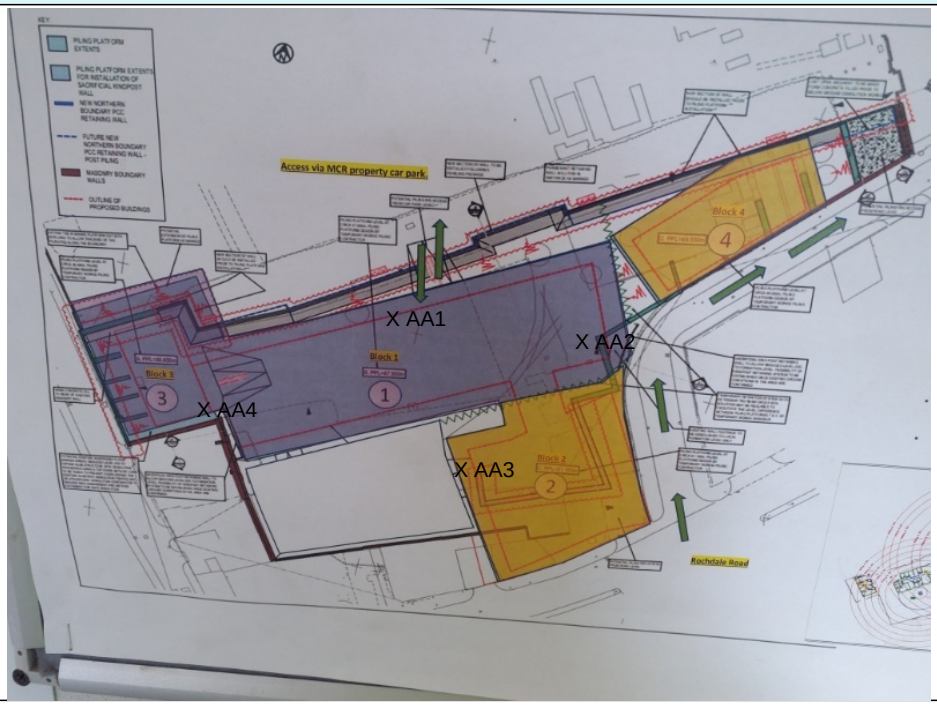
| Far-Source Sampling | X | Near-Source sampling | | Leak Test | | Background Test | | Reassurance Test | |
|---|---|---|---|---|---|---|---|---|---|

**Site Photograph and Additional Site Information**

| | |
|---|---|
| **Area Assessed:** | Chartrange site perimeter |
| **Description of reason for test (including the nature and extent of ACMs removed):** | Far source airtest to measure airborne fibre levels during the ongoing ground works on the chartrange site |

| Site Specific Risk Assessment: | Project Information Sheet (if used): |
|---|---|
| RA/23/10/10/AA1 | NA |

**Sample Area Layout Plan**



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## Air Test Summary

| Field Blank No. | 23/10/A/10/AA5 | Fibres | - | Fields | - | Head No. | 17E |
|---|---|---|---|---|---|---|---|

| Sample Number | Sample Location and Description | Sample Volume (l) | Fibres | Fields | Calculated Concentration (f/ml) | Reported Concentration (f/ml) | Limit of Quantification (f/ml) |
|---|---|---|---|---|---|---|---|
| 23/10/A/10/AA1 | Site perimeter | 960 | 1 | 200 | 0 | <0.005 | 0.005 |
| 23/10/A/10/AA2 | Site perimeter | 968 | 1 | 198 | 0 | <0.005 | 0.005 |
| 23/10/A/10/AA3 | Site perimeter | 960 | 2 | 200 | 0.001 | <0.005 | 0.005 |
| 23/10/A/10/AA4 | Site perimeter | 968 | 1 | 198 | 0 | <0.005 | 0.005 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |

**The calculated result is derived from the formula published in HSG 248, The Analysts Guide; $C = 1000\ N\ D^2 / V\ n\ d^2$, where:**
**N** = Number of fibres counted; **D** = Diameter of exposed filter area; **V** = Collected volume of sample; **n** = number of fields counted;
**d** = measured diameter of Walton Beckett graticule

## Analysts' Comments (Opinions expressed are outside of the scope of our UKAS accreditation)

Dry sunny day; no breeze; ground is wet.

## Findings of Testing and Analysis

| | |
|---|---|
| The measured respirable airborne fibre concentrations are below the limit of quantification and no remedial measures are considered necessary | ✓ |
| One or more of the measured respirable airborne fibre concentrations are elevated and remedial measures have been advised to the client or contractor representative | |

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|---|---|---|---|---|

## Photographs

**Ongoing site Works**

**Ongoing site Works**

**Ongoing site Works**

**Ongoing site Works**

**Sampling pump (sample ref: 23/10/A/10/AA1)**

**Sampling pump (sample ref: 23/10/A/10/AA2)**

**Sampling pump (sample ref: 23/10/A/10/AA3)**

**Sampling pump (sample ref: 23/10/A/10/AA4)**

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| **Contact:** N/A | **Contact:** James Kennedy | **Contact:** N/A |

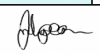
## Appendix 1 - Additional Air Test Information

**Notes:**

1. This information supplements the air test results in the Air Test Certificate and is only valid in conjunction with those results.
2. Temperature is recorded in **Kelvin (K)**, Pressure is recorded in **mmHg**, Flowrates are recorded in **litres per minute (l/min)**, Sample volume is recorded in **litres**
3. Interim flow checks are only carried out where the overall sample period exceeds approximately 1 hour
4. All testing and analysis is undertaken with reference to APEC' task specific risk assessments TRA 01 and TRA 02
5. Analysis has been undertaken in accordance with methods described in HSG248, The Analysts guide. The reported results are based on a count of all respirable fibres sampled.

## APEC Analytical Equipment

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Flow Meter** | FM48 | **Barometer** | N/A | **Thermometer** | N/A | **Stop Watch** | SW18 | **Effective filter diameter (mm)** | 22.60 |
| **Stage Micrometer No** | SM19 | **Measured Graticule dia.** | 100 | **HSE / NPL Test Slide No.** | PC22 | **No. of bands seen** | 5 | **Microscope Number** | M10 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Samples counted by (APEC Analyst)** | Andy Alker | **Signed** |  | **Date Analysed** | 10/10/2023 | **Analysis Location (Site / Lab)** | Site |
| **Test Protocol:** | **6S (Far-source monitoring** | | | | | **Checked by:** | N/A |
| **Suitability of Counting Location** | **Location assessed and adequate (if not record details in Analyst Comments)** | ✓ | **Counting Location (describe)** | Onsite welfare cabin | | | |

| Sample Number | Pump No. | Head No. | Temp | Pressure | Start Flow | Start Time | Interim Flow | Interim Time | End Flow | End Time |
|---|---|---|---|---|---|---|---|---|---|---|
| 23/10/A/10/AA1 | JT2238 | 17A | N/A | N/A | 8.0 | 09:30 | 8.0 | 10:29 | 8.0 | 11:30 |
| 23/10/A/10/AA2 | JT2239 | 17B | N/A | N/A | 8.0 | 09:31 | 8.0 | 10:32 | 8.0 | 11:32 |
| 23/10/A/10/AA3 | JT2240 | 17C | N/A | N/A | 8.0 | 09:33 | 8.0 | 10:35 | 8.0 | 11:33 |
| 23/10/A/10/AA4 | JT2241 | 17D | N/A | N/A | 8.0 | 09:34 | 8.0 | 10:36 | 8.0 | 11:35 |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |

## Analysts in Training

**To be signed off by the lead analyst where the analyst carrying out the inspection and testing is working under supervision as part of training.**

| | | | | | |
|---|---|---|---|---|---|
| **Trainer / Lead** | | ~~**Signed by (APEC)**~~ | | ~~**Date:**~~ | |
| ~~**Trainee**~~ | | ~~**Signed by (APEC)**~~ | | ~~**Date:**~~ | |