

Liddell Road West Hampstead – Construction Dust Monitoring

For the Monitoring of dust (PM10) 3 Turnkey Osiris monitors were installed at the Liddell Road NW6 2EW construction site on Wednesday 25th January 2022. The purpose of the survey is to continuously monitor dust levels at the nearest residential receptors to the site. The survey will be carried out over 52 weeks. This document provides a summary of all the daily average dust levels and highest 15-minute average dust levels, so far

Project Name
Liddell Road

Our Reference

Measurement Locations

Dust Monitor 1 TNO4649 was positioned at the entrance off Maygrove Road near Block B
Dust Monitor 2 TNO4650 was positioned in middle of Block C and is fitted with an Anemometer.
Dust Monitor 3 TNO4651 is positioned at Liddell Road entrance near the site office.

Dust measurement locations Figure 1

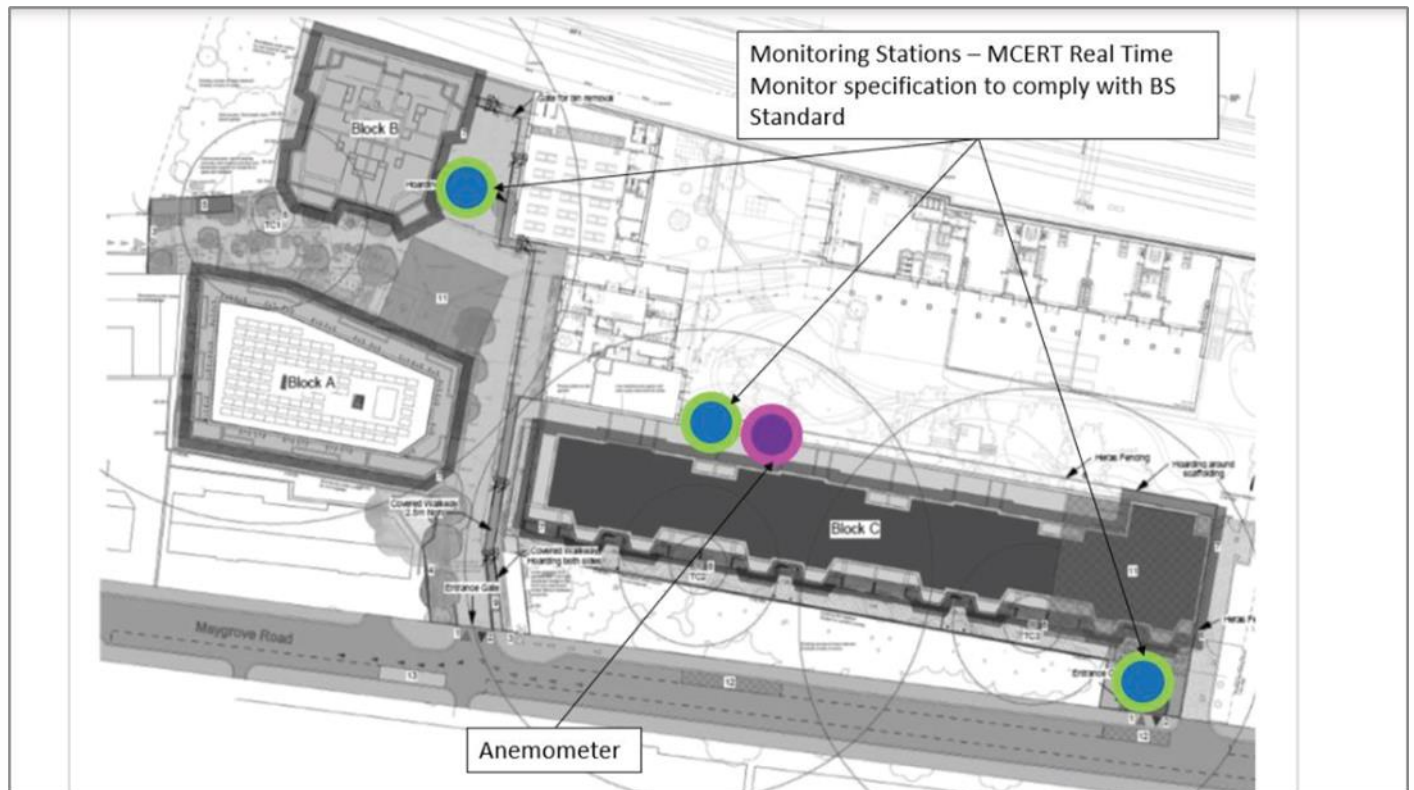


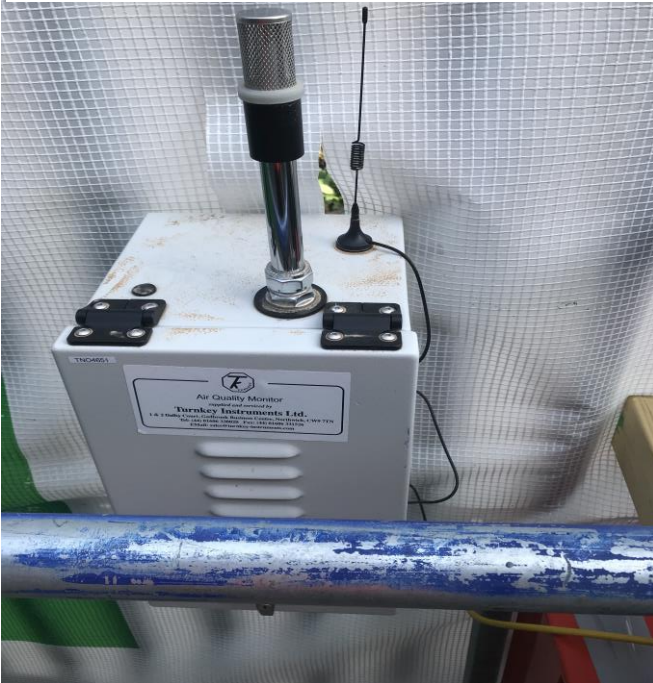
Figure 1



Monitor 1



Monitor 2



All 3 dust monitors were factory calibrated on 19th January 2022 and were recalibrated and serviced on 10th January 2023

Assessment Criteria

The dust monitoring will be reported throughout the construction phase in line with the planning conditions set. The Osiris Monitors are MCERTS certified as required by Camden Council

The location of the monitors seen in figure 1 were presented to Camden Council in a Construction Management Plan (CMP) and agreed by the Environmental Health Officer
Monitor TNO4651 Position 3 was moved on Wednesday 20th July at request of the Construction Working Group

The report represents results for July 2023 and shows any exceedance of Trigger Levels in that period. The limit for dust is based on the London Plan SPG 8 that recommends a trigger level of 170 $\mu\text{g}/\text{m}^3$ PM10 measured as an average over 15 minutes.

The agreed working hours for the Liddell Road NW6 2EW site are:

Monday - Friday: 8.00 a.m. - 6.00 p.m.

Saturday: 8.00 a.m. - 14.00 p.m.

Sunday and Bank Holidays: No noisy activities on site

Dust levels approaching the trigger levels have been alerted to the site using automatically generated emails. Please see below the Trigger and Action Levels in accordance with the requirements of planning conditions

Trigger /Action Level	Trigger/Dust Action Level ($\mu\text{g}/\text{m}^3$)
Alert Level (as a 15min average)	170 $\mu\text{g}/\text{m}^3$
Action Level (as a 15min average)	250 $\mu\text{g}/\text{m}^3$
Action Level (as a 1-hour average)	190 $\mu\text{g}/\text{m}^3$

Measured Data

Table 1 below provides the daily average 10-hour weekday dust level measurements. The dust level measurements tabulated are the highest 15-minute average density of $\mu\text{g}/\text{m}^3$ of PM10 particulates per week

Table 1: Measured dust data

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The highest 15-minute average dust measurement has been compared with the London Plan SPG 8 recommended trigger level for construction sites.

TN04649 Position 1 Removed August 22nd, 2023

TN04650 Position 2 Removed August 22nd, 2023

TN04651 Position 3

Week/commencing	Max $\mu\text{g}/\text{m}^3$	Min $\mu\text{g}/\text{m}^3$	Average $\mu\text{g}/\text{m}^3$	15min Alert>170 $\mu\text{g}/\text{m}^3$	15min Action Level >250 $\mu\text{g}/\text{m}^3$	Ave 1 Hour Action Level>190 $\mu\text{g}/\text{m}^3$	Data Capture %
01.01.24 - 06.01.24	300.0	4.4	37.8	2	1	0	100
08.01.24 - 13.01.24	*	*	*	*	*	*	0
15.01.24 - 20.01.24	*	*	*	*	*	*	0
22.01.24 - 31.01.24	*	*	*	*	*	*	0



Postion3 Summary Results 24Hr Average

Week/Commencing	Max Ug/m ³	Min Ug/m ³	Average Ug/m ³	Exceedance>50 Ug/m ³ Trigger Level	Data Capture %
01.01.24 - 06.01.24	49.7	31.7	41.7	0	100
08.01.24 - 13.01.24	*	*	*	*	100
15.01.24 - 20.01.24	*	*	*	*	100
22.01.24 - 31.01.24	*	*	*	*	100

Summary of Tables above

- Monitor being moved as Hoarding was Taken down

Position 3 Had 2 exceedances of the 170ug/m³ Trigger Level

1 Hour Averaging Period

The table above show

Position 3 had 0 exceedances for the 1-hour trigger levels for PM¹⁰.

24-Hour Averaging period

The table above shows there were 0 exceedances of .50ug/m³ limit at Position 3

Action Taken for Exceedance of 1-Hour 190ug/M³

Position 3

