

PM₁₀ Monitoring Report

September 2021

2 Chester Road, London (N19 5BP)

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PM₁₀ Monitoring Report for September 2021

2 Chester Road, London (N19 5BP)

London Borough of Camden

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1. Monitoring Programme

Introduction

- 1.1 Phlorum Limited has been commissioned by the London Borough of Camden (LBC) to undertake PM₁₀ dust monitoring at 2 Chester Road, London (N19 5BP).
- 1.2 Dust monitoring is required for the demolition of existing buildings on site followed by the construction of a hostel to provide 50 new dwellings across three blocks, intended for the temporary accommodation of homeless families (planning application reference: **2020/3461/P**).
- 1.3 Real-time monitoring of particulate matter (PM₁₀) is required at two locations on-site throughout the circa 98-week build programme, including a three-month period of baseline monitoring. Monthly reports are required to be supplied to the LBC air quality team throughout the construction of the proposed development.
- 1.4 Both monitors were installed on site on 16th July 2021. This report provides details of the monitoring programme and associated results and covers the subsequent monitoring period, as detailed below:

 1st September 2021 to 30th September 2021, inclusive.

Guidance and Consultation

- 1.5 The dust monitoring programme follows guidance set out in the Greater London Authority (GLA) *Control of Dust and Emissions During Construction and Demolition Supplementary Planning Guidance (SPG)*¹, as well as the Institute of Air Quality Management (IAQM) *Guidance on Monitoring in the Vicinity of the Demolition and Construction Sites*².
- 1.6 The approach to the monitoring programme, as outlined below, was agreed with the air quality officer at LBC in advance of the installation.

Dust Monitoring Units

- 1.7 As requested during consultation with LBC, two 'MCERTS' indicative real-time PM₁₀ monitors were installed on site, connected to power and began transmitting data on Friday 16th July 2021.

1 GLA Control of Dust and Emissions During Construction and Demolition Supplementary Planning Guidance, 2014.
https://www.london.gov.uk/sites/default/files/gla_migrate_files_destination/Dust%20and%20Emissions%20SPG%208%20July%202014.pdf

2 IAQM Guidance on Monitoring in the Vicinity of the Demolition and Construction Sites, 2018.
https://iaqm.co.uk/text/guidance/guidance_monitoring_dust_2018.pdf

- 1.8 Full details of the dust monitoring units, including service history, calibration, and installation dates, are provided below in Table 1.1.




Table 1.1: Dust Monitor Details

Item	Monitor 1 – Chester Road	Monitor 2 – Dartmouth Park Hill
	ID: s/n 1620 #182 MP1	ID: s/n 1622 #183 MP2
Dust Monitor	Aeroqual Dust Sentry (MCERTS certified)	Aeroqual Dust Sentry (MCERTS certified)
Serial Number	DS 20052021-1620	DS 20052021-1622
Location	51.563084°N, -0.141199°E	51.563108°N, -0.140870°E
Inlet Height	c. 4.4m	c. 7.0m
Last Calibrated	14 th July 2021	14 th July 2021
Calibration Due	14 th July 2023	14 th July 2023
Installation	16 th July 2021	16 th July 2021

- 1.9 A map of the dust monitoring locations has been provided in Figure 1. Photographs of the Dust Sentry units installed on site are provided in Figures 2 and 3.

Trigger Levels

- 1.10 The following trigger levels were set at the request of LBC's air quality officer:

-  'Warning' level: 150µg.m⁻³ (15-minute average);
-  'Action' level: 250µg.m⁻³ (15-minute average);
-  'Action' level: 190µg.m⁻³ (1-hour average).

2. Monitoring Results

Monitoring Period

- 2.1 The results presented in this section of the dust monitoring report relate to the monitoring period 1st September to 30th September 2021, inclusive.

Details of Works During Monitoring Period

- 2.2 Demolition and construction works are yet to commence on site and the results presented for September 2021 relate to the second full monthly period of baseline monitoring.

Summary of Data During Monitoring Period

- 2.3 The data in Table 2.1, below, provides a summary of exceedances of the trigger levels, as well as average concentrations and valid data capture.

Table 2.1: Summary table of exceedances of trigger levels

Item	Monitor 1 – Dartmouth Park Hill	Monitor 2 – Chester Road	Explanation
	ID: s/n 1622 #183 MP2	ID: s/n 1620 #182 MP1	
Data Capture	99.9%	99.9%	No major connectivity issues during this monitoring period.
Average Daily Mean PM ₁₀ Concentration (µg.m ³)	11.8	11.2	-
15-Minute mean 'Action' Level Exceedances	0	0	There were no exceedances of the 15-minute mean trigger level during September 2021.
1-Hour mean 'Action' Level Exceedances	0	0	There were no exceedances of the 1-hour mean trigger during September 2021.

- 2.4 Graph 1 provides the 15-minute average PM₁₀ time-series for the monitoring period. It shows that there were no exceedances of the 15-minute 'Warning' level at either monitor during September 2021. There were also no exceedances of the 15-minute 'Action' trigger level at either monitor during this period.

- 2.5 Overall, there is good agreement in the trend lines for both monitors which suggests that there are few significant localised dust sources in close proximity to either monitor.
- 2.6 Graph 2 provides the 1-hour average PM₁₀ time-series for the monitoring period. It shows that there were no exceedances of the 'Action' trigger level. Again, there is good agreement in the trend lines for both monitors, suggesting that there are few significant localised dust sources in close proximity to either monitor.

Summary of Monitoring Results

- 2.7 There were no exceedances of either the 15-minute 'Warning' level or 'Action' trigger level at either Monitor 1 or Monitor 2 throughout this monitoring period.
- 2.8 There were no exceedances of the 1-hour mean 'Action' trigger level during the monitoring period.
- 2.9 Overall, there is good agreement in the trend line for both monitors, indicating that there are few significant localised dust sources in proximity to either monitor.
- 2.10 Demolition and construction works are yet to commence on site. As such, the results presented within this report for September 2021 relate to the second full monthly period of baseline monitoring.

Figure 1: Map of Monitoring Locations

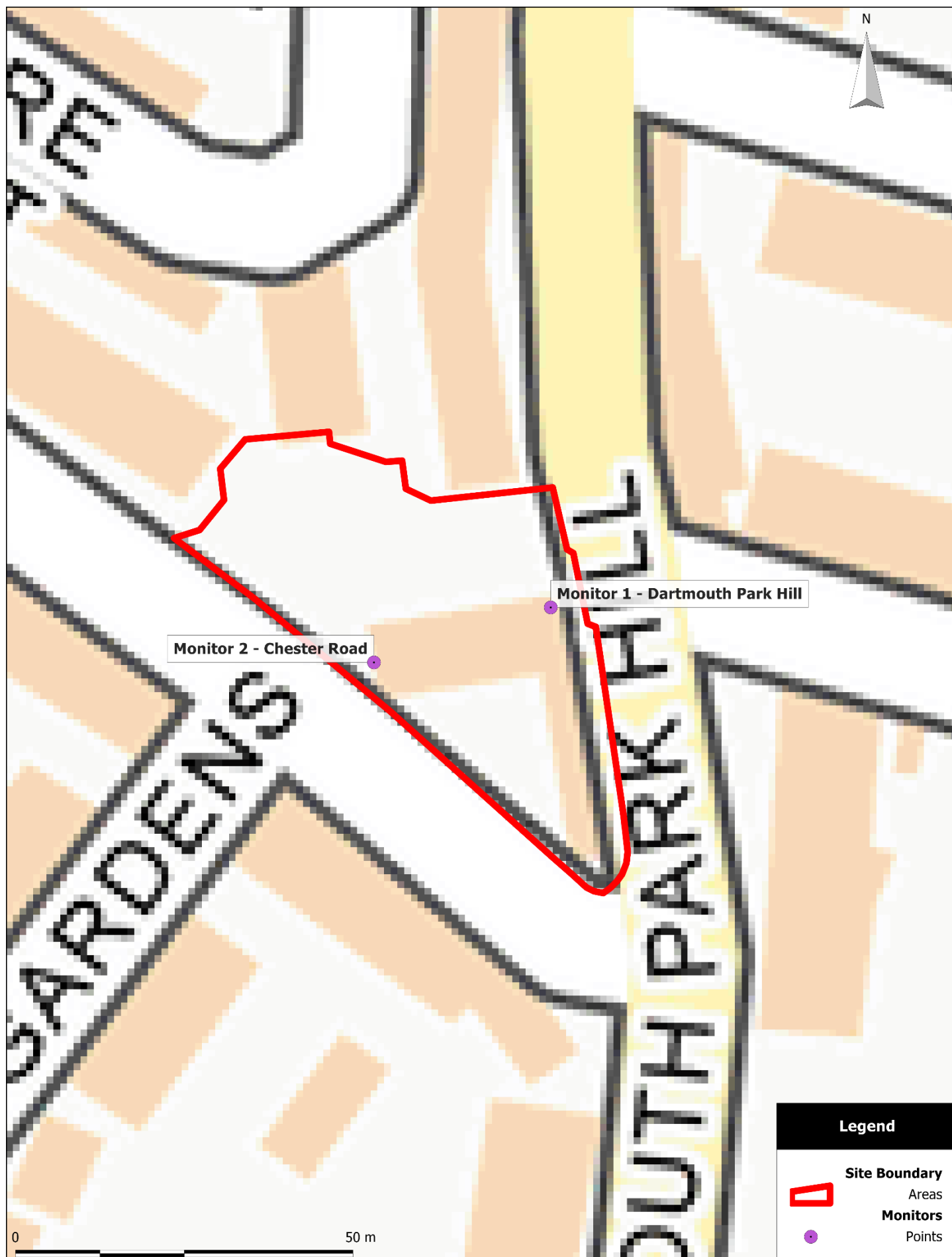


Figure 1: Monitoring Locations

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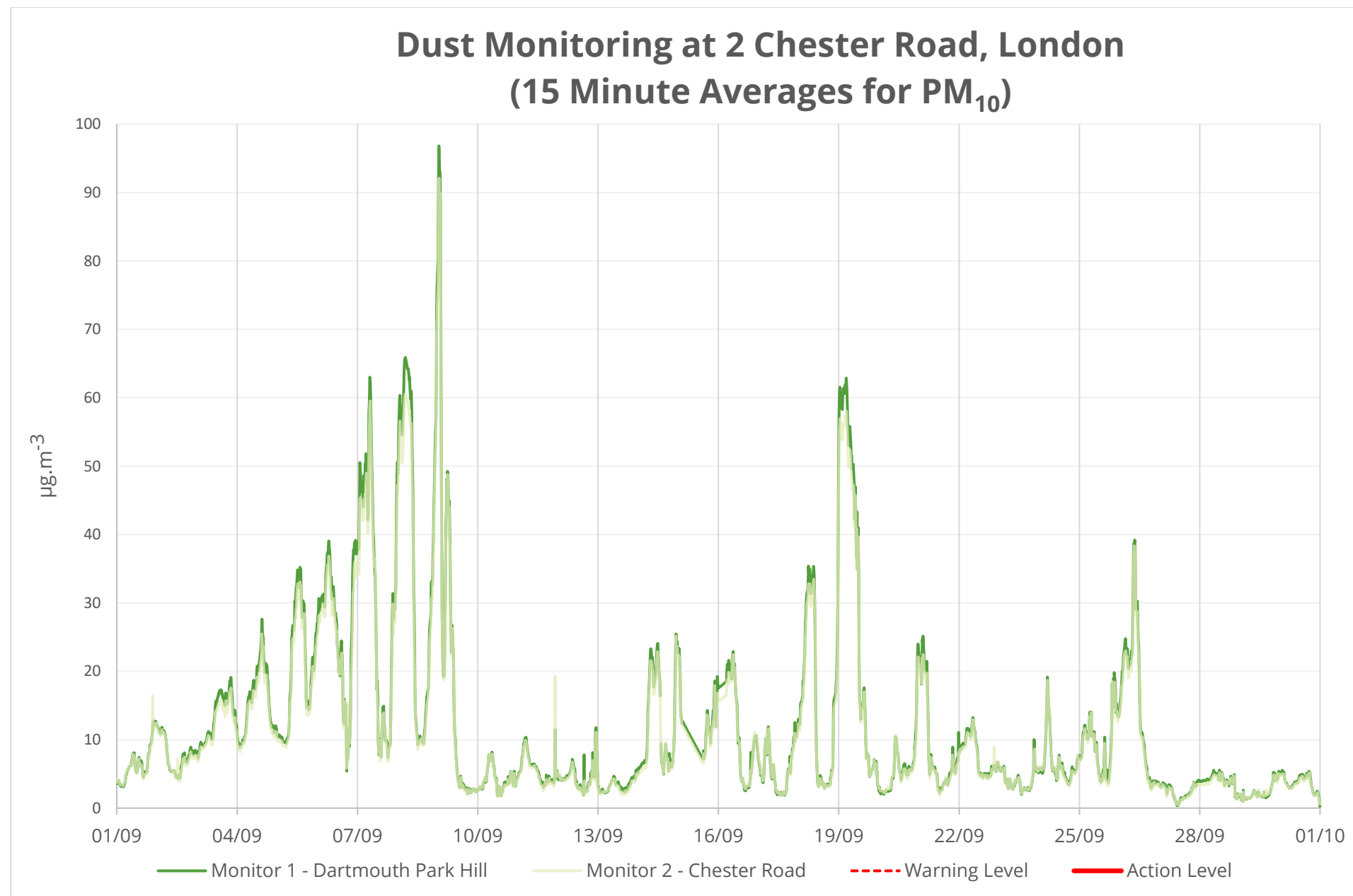
Figure 2: Monitor 1 – Dartmouth Park Hill



Figure 3: Monitor 2 – Chester Road

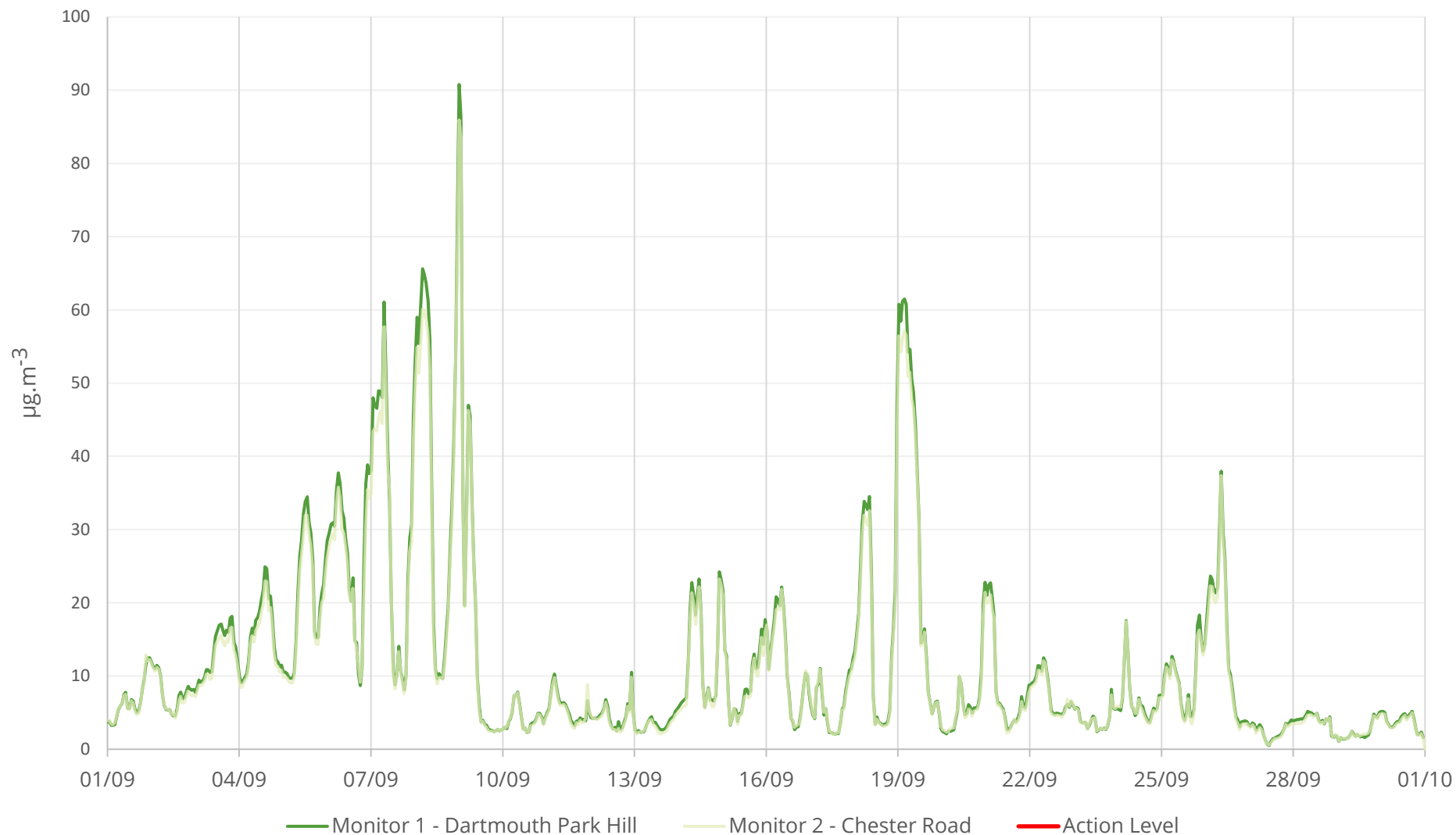


Graph 1: 15-minute mean time-series



Graph 2: 1-hour mean time-series

Dust Monitoring at 2 Chester Road, London (Hourly Averages for PM₁₀)





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