



## PM<sub>10</sub> Monitoring Report

July 2021

2 Chester Road, London (N19 5BP)

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## PM<sub>10</sub> Monitoring Report for July 2021

### 2 Chester Road, London (N19 5BP)

London Borough of Camden

5 Pancras Square  
London  
N1C 4AG

Document Control:

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#### Phlorum Limited

Southern Office: Unit 12, Hunns Mere Way, Woodingdean, Brighton, East Sussex, BN2 6AH  
T: 01273 307 167 E: [info@phlorum.com](mailto:info@phlorum.com) W: [www.phlorum.com](http://www.phlorum.com)

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# 1. Monitoring Programme

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## Introduction

- 1.1 Phlorum Limited has been commissioned by the London Borough of Camden (LBC) to undertake PM<sub>10</sub> 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 (PM<sub>10</sub>) 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 16<sup>th</sup> July 2021. Therefore, this report provides details of the monitoring programme and associated results and covers the first monitoring period, as detailed below:

 16<sup>th</sup> July 2021 to the 31<sup>st</sup> July 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)*<sup>1</sup>, as well as the Institute of Air Quality Management (IAQM) *Guidance on Monitoring in the Vicinity of the Demolition and Construction Sites*<sup>2</sup>.
- 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 PM<sub>10</sub> monitors were installed on site, connected to power and began transmitting data on Friday 16<sup>th</sup> July 2021.

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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](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](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	July 14 <sup>th</sup> 2021	July 14 <sup>th</sup> 2021
Calibration Due	July 14 <sup>th</sup> 2023	July 14 <sup>th</sup> 2023
Installation	16 <sup>th</sup> July 2021	16 <sup>th</sup> 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<sup>-3</sup> (15-minute average);
-  'Action' level: 250µg.m<sup>-3</sup> (15-minute average);
-  'Action' level: 190µg.m<sup>-3</sup> (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 16<sup>th</sup> July to 31<sup>st</sup> July 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 July 2021 relate to the first 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	99.3%	99.2%	No major connectivity issues during this monitoring period.
Average Daily Mean PM <sub>10</sub> Concentration (µg.m <sup>3</sup> )	10.7	10.3	-
15-Minute mean Trigger Level Exceedances	0	0	There were no exceedances of the 15-minute mean trigger level during July 2021.
1-Hour mean Trigger Level Exceedances	0	0	There were no exceedances of the 1-Hour mean trigger during July 2021

- 2.4 Graph 1 provides the 15-minute average PM<sub>10</sub> time-series for the monitoring period. It shows that there were no exceedances of the 15-minute 'Warning' level at either monitor during July 2021.

- 2.5 There were no exceedances of the 15-minute 'Action' trigger level at either monitor during this period. 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 PM<sub>10</sub> time-series for the monitoring period. It shows that there are 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 the 'Action' trigger levels 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, however, it is worth noting that there were some brief, localised spikes in PM<sub>10</sub> concentrations observed at both monitors.
- 2.10 Demolition and construction works are yet to commence on site. Therefore, the results presented within this report for July 2021 relate to the first period of baseline monitoring.

## Figure 1: Map of Monitoring Locations



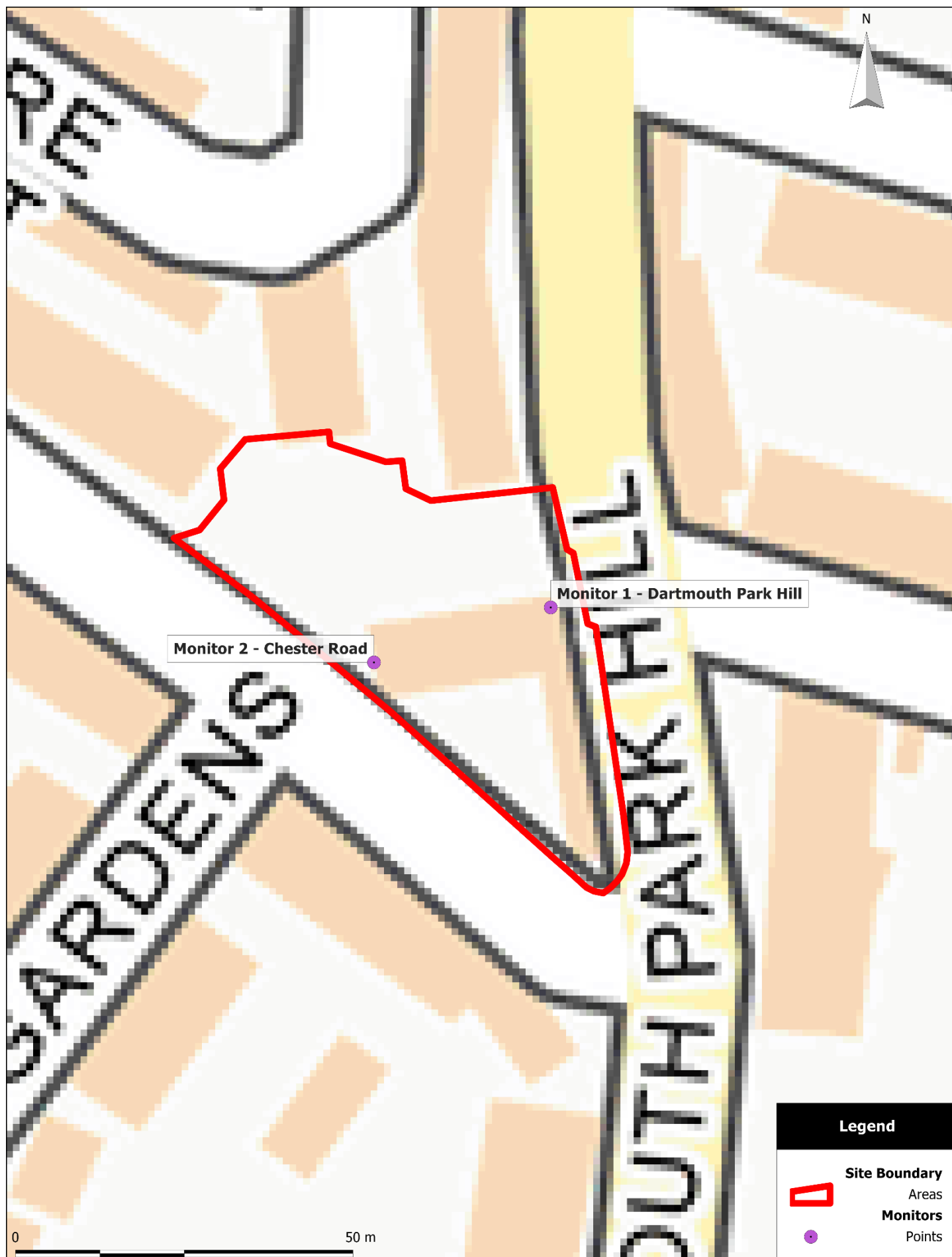


Figure 1: Monitoring Locations

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## Figure 2: Monitor 1 – Dartmouth Park Hill



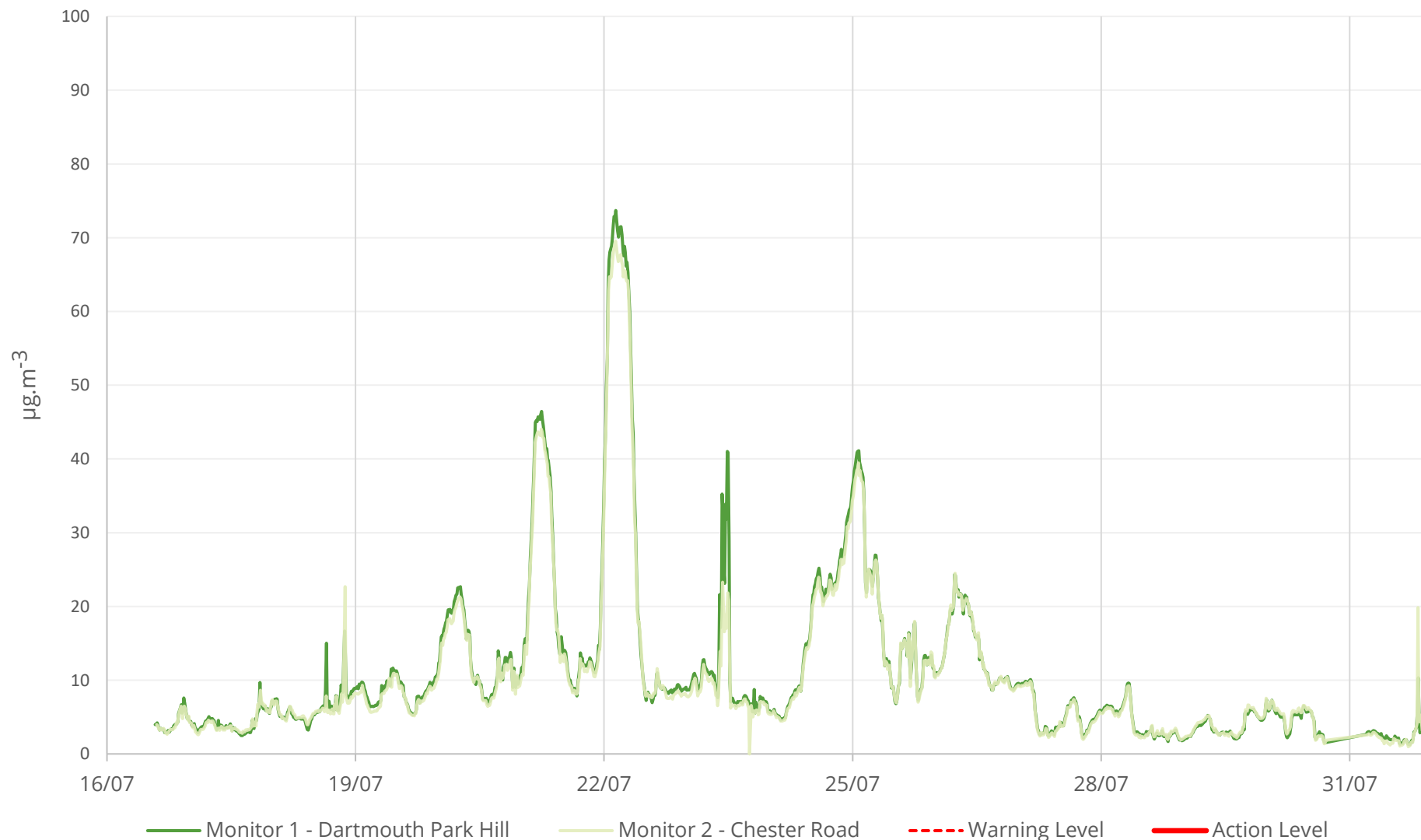
### Figure 3: Monitor 2 – Chester Road





## Graph 1: 15-minute mean time-series

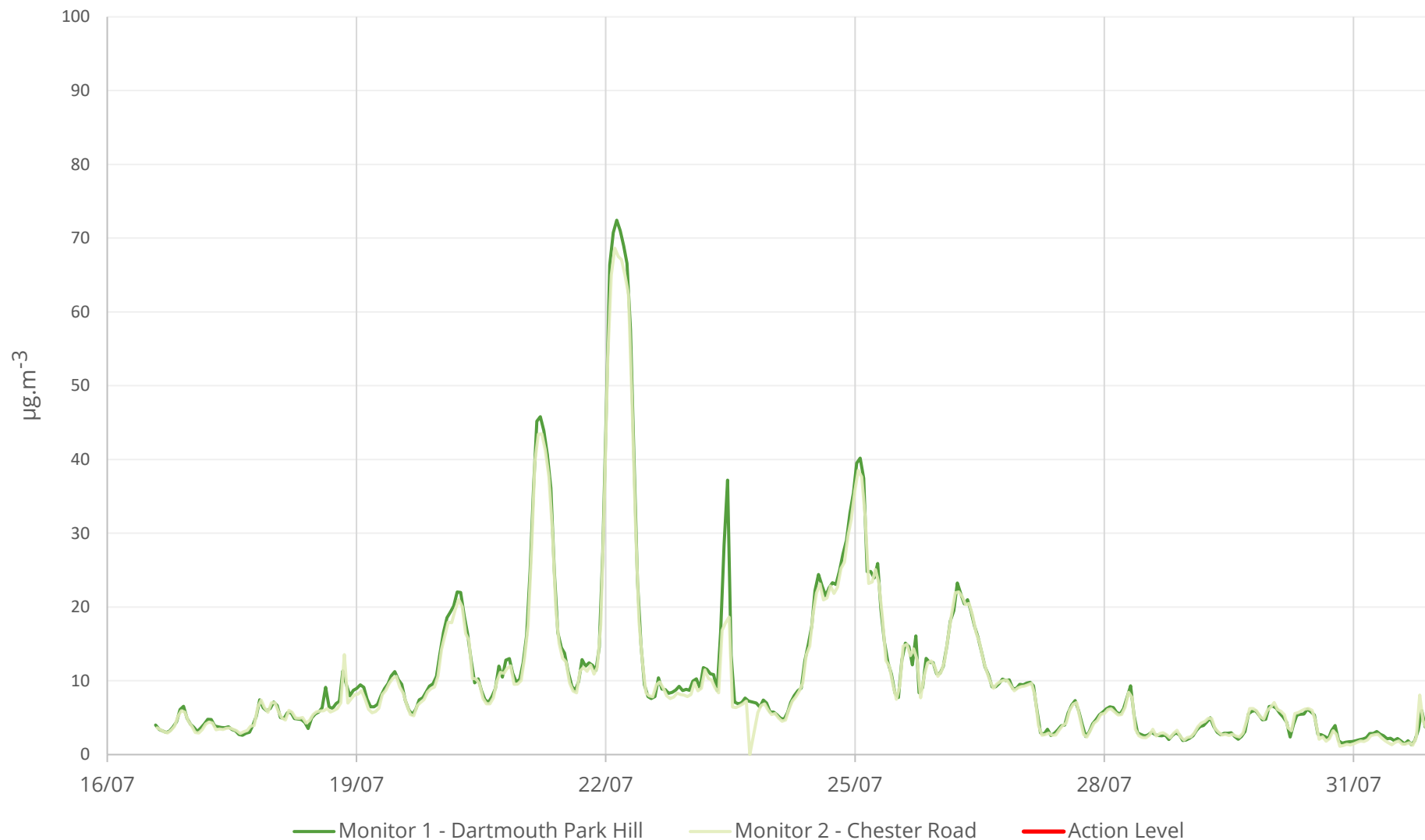
## Dust Monitoring at 2 Chester Road, London (15 Minute Averages for PM<sub>10</sub>)



## Graph 2: 1-hour mean time-series



## Dust Monitoring at 2 Chester Road, London (Hourly Averages for PM<sub>10</sub>)





## Phlorum Limited

### Head Office & Registered Office:

Unit 12  
Hunns Mere Way  
Woodingdean  
Brighton  
East Sussex  
BN2 6AH  
**T:** 01273 307 167

### Northern Office:

Ground Floor  
Adamson House  
Towers Business Park  
Wilmslow Road  
Didsbury  
Manchester  
M20 2YY  
**T:** 0161 955 4250

### Western Office:

One Caspian Point  
Pierhead Street  
Cardiff Bay  
Cardiff  
CF10 4DQ  
**T:** 029 2092 0820

info@phlorum.com  
**www.phlorum.com**

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