

March 2025

Air Quality and Dust Monitoring Monthly Report – March 2025 Birmingham City Council



High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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A report prepared by EWCs and MWCCs on behalf of HS₂ Ltd.

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Air Quality and Dust Monitoring Summary Report, March 2025 Birmingham City Council

Monthly Summary

- 1.1.1 This Summary Report is published in fulfilment of commitments detailed in the High Speed Rail (London-West Midlands) Environmental Minimum Requirements, Annex 1: Code of Construction Practice, for the nominated undertaker to present the results of dust monitoring undertaken within Birmingham City Council (BCC) during March 2025.
- 1.1.2 Figure 1 to Figure 3 in Appendix A present the current worksites together with the dust monitoring locations.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, which highlights: the applicable standards and guidance, as well as the air quality and dust monitoring methodologies to be implemented by nominated undertakers throughout construction.
- 1.1.4 The current worksites, as presented in Appendix A, Figure 1 to Figure 3, include:

Sublot 4

Washwood Heath

- Traffic on main site haul road, including haul road maintenance with excavator, Articulated Dump Trucks (ADTs), dozer and roller to compact.
- Vehicle delivery check area, including reversing vehicles and loading / unloading plant / material deliveries.
- Excavators, cranes and concrete pumps working in permanent brook conducting Fibre-Reinforced Concrete (FRC) works.
- Excavators and rollers working south of the brook backfilling behind FRC wall.
- Stockpile management area including tipping and loading of ADTs and wagons, excavators and dozers.
- Tarmac batching plant operations, including delivery of aggregates, operating plant and concrete wagons.

Curzon Street

- Pier and deck construction.
- Underground drainage works.
- Tripod dismantling and installations.
- Concrete works.
- Traffic on main site haul road, including haul road maintenance with excavator and roller to compact.
- Vehicle delivery check area, including reversing vehicles and loading / unloading plant / material deliveries.
- Roller working on site.
- Plant used: Excavators, tower crane, mobile crane and rollers.

Bromford East Tunnel Portal (Sublot 1B)

- Repairs or maintenance of construction equipment, where it is not practicable to complete during core working hours. This was carried out on Saturday afternoons between 13:00 and 18:00 or on Sundays between 10:00 and 17:00.
- Operation and maintenance of 2 Tunnel Boring Machines (TBMs) and 2 Slurry Treatment Plants (STPs).
- Site Generators / Substations supporting deliveries 24 hours a day, 7 days a week.
- Delivery of equipment and segments for tunnel construction.
- Operations of a sub-station which is owned by a different company.
- Construction of a Mechanical, Electrical and Plumbing (MEP) building for Bromford Tunnel Intermediate Shaft (BTIS) and Bromford Tunnel East Portal (BTEP).
- Operation and maintenance of two grout batching plants.
- Use of gantry crane, tower crane and several crawler cranes.
- The transport of muck from Muck bin to Sublot Delta via ADTs.
- Construction of Acoustic platform.
- Road sweeping and dust suppression 24 hours a day, 7 days a week.

Curzon Street Station – Main works

- Installation of bearing and secant piles
- Import of materials required for piling activities
- Export of excavated materials
- Earthworks required for installation of site compound.
- 1.1.5 Eight (8) dust monitors are installed around these worksites, where works are underway. These sites returned a low to medium dust risk rating.
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with line charts of monthly data from each dust monitor, presented in Figure 4. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors carry a higher level of uncertainty than reference monitors, and therefore cannot be strictly compared with Air Quality Standards for human health and the environment. The purpose of the monitoring undertaken is to ensure the effectiveness of the on-site mitigation.
- 1.1.7 The trigger level for PM₁₀ concentrations of 190 μg/m³, over a 1-hour period, in accordance with the updated guidance document '*Guidance on Monitoring in the Vicinity of Demolition and Construction Sites (October 2018)*' has been applied.
- 1.1.8 Details of the trigger alert investigations and remediations are presented in Appendix B, Table 3.
- 1.1.9 Data capture was below 90% for the BETP002 monitor. Fault investigation site visits took place on 25th March 2025 and 9th April 2025. A lab calibration swap out is scheduled for 15th April 2025, and a field calibration is scheduled for 24th April 2025. Dust monitor 00289

continued to provide invalid readings in March, following a replacement and this data has been disregarded due to the data being inaccurate. The monitor has since been replaced and is showing valid readings.

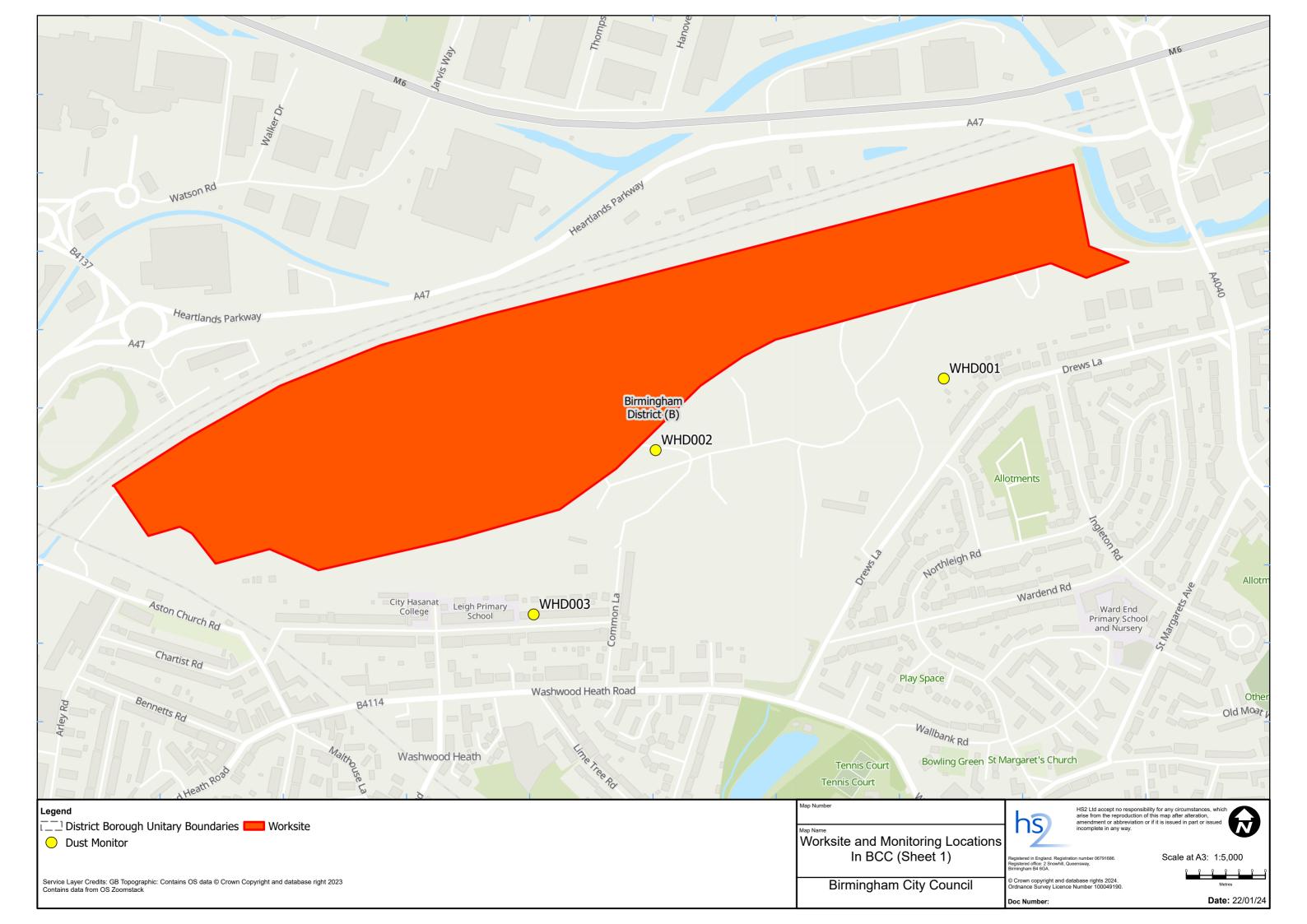
1.1.10 Table 1 provides a summary of the complaint information relating to dust or air quality received during the reporting period, together with the findings of any related investigations.

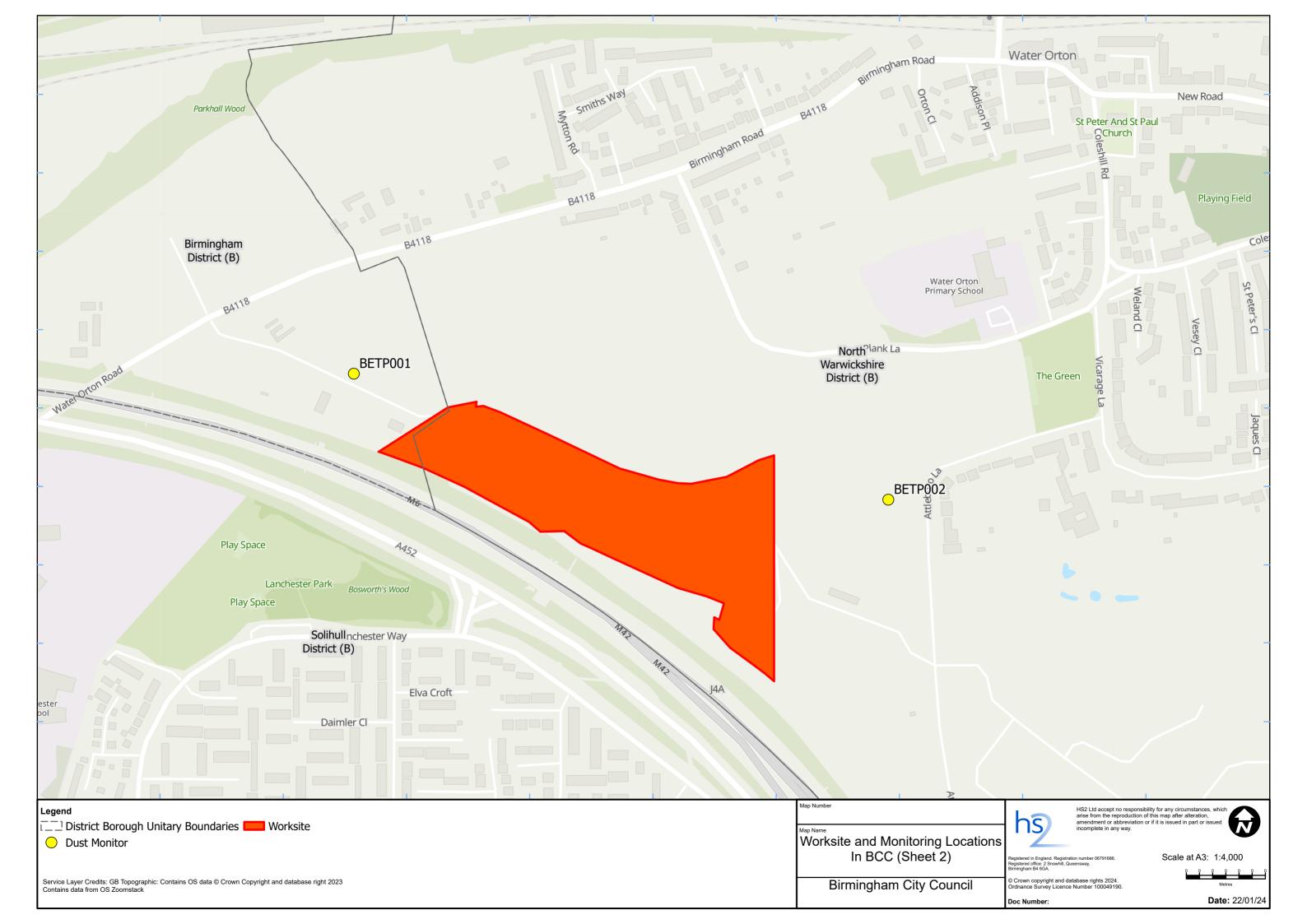
Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46149-C	N/A	Dust in the area.	All mitigation measures are in place to reduce dust in the area, including water suppression. Monitors checked and are significantly below permitted thresholds. Resident has been updated.
HS2-25-46155-C	N/A	Dust on personnel vehicles	All mitigation measures are in place to reduce dust in the area, including water suppression. Monitors checked and are significantly below permitted thresholds. Resident has been updated.
HS2-25-46157-C	N/A	Dust on property.	All mitigation measures are in place to reduce dust in the area, including water suppression. Monitors checked and are significantly below permitted thresholds. Resident has been updated.

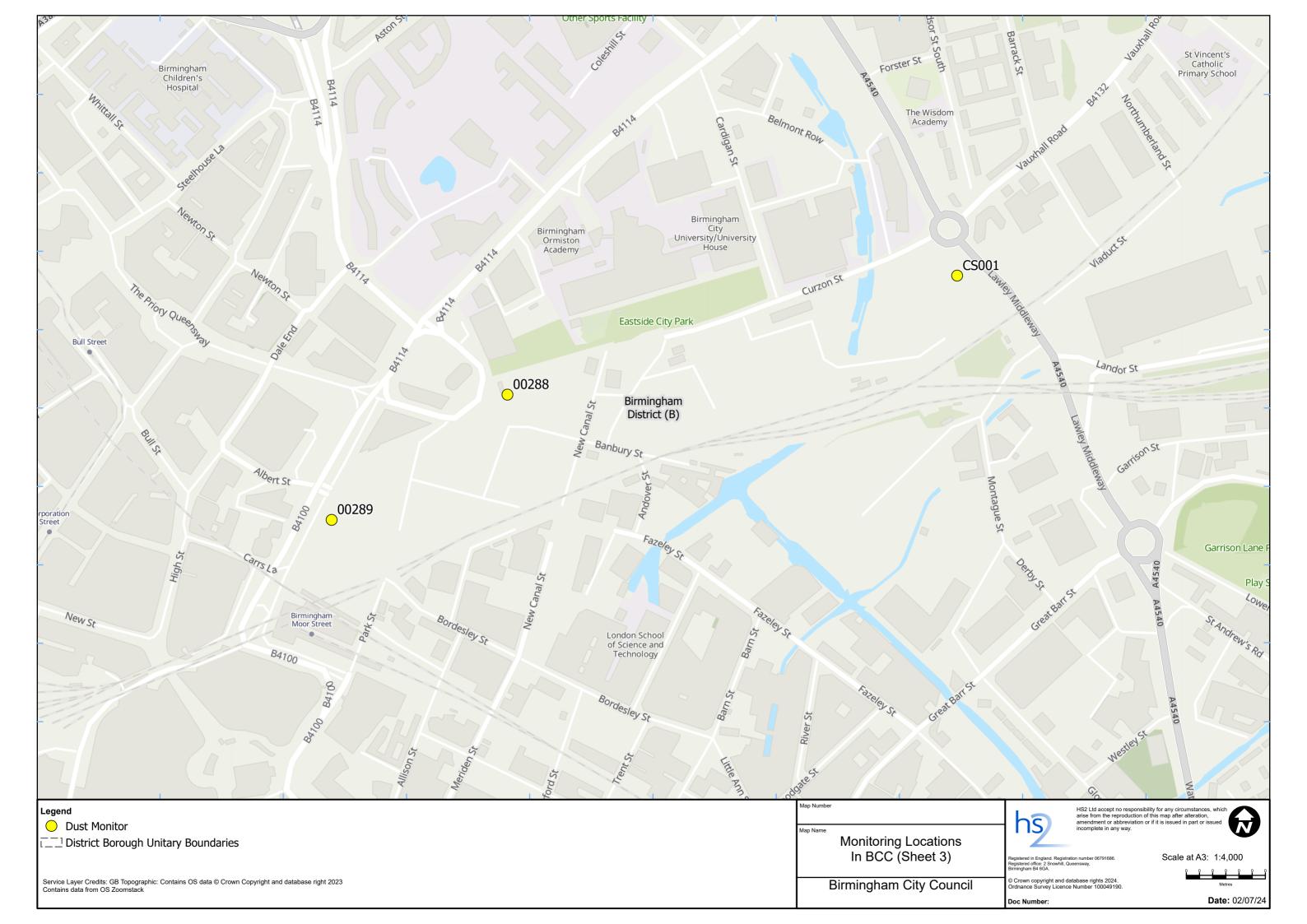
Table 1: Summary of complaints received during March 2025

Appendix A – Worksites and Monitoring Locations

Figures 1 - 3: Worksites and Monitoring Locations within BCC







Appendix B – Dust Monitoring Results

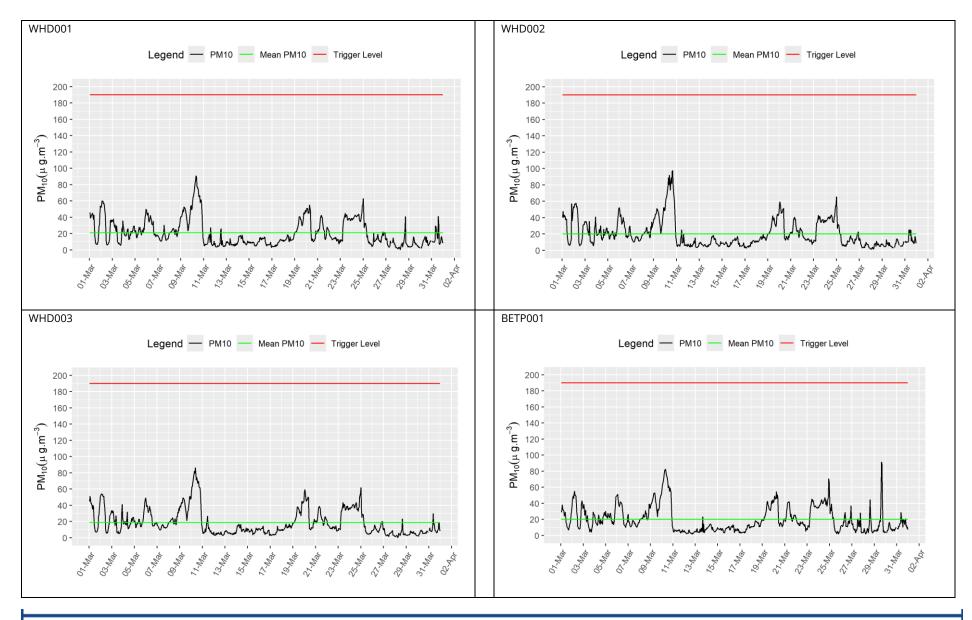
Table 2: Dust Monitoring Locations and Results

Monitoring site ID	Coordinates (X,Y)	Location description	Dust risk rating for site	Monitoring site active during period	Change to site since previous period report	Mean 1-hour PM10 concentration (µg/m3)	Minimum 1-hour PM10 concentration (µg/m3)	Maximum 1- hour PM10 concentration (µg/m3)	Number of 1- hour periods exceeding trigger level of 190 µg/m3	Data capture (%)
WHD001	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	М	Yes	No	20.7	0.5	90.7	0	99.6
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	М	Yes	No	20.0	1.4	97.5	0	99.7
WHD003	410562, 288866	Washwood Heath Depot, near receptors on Warren Road	М	Yes	No	18.7	0.1	86.1	0	99.7
BETP001	416719, 290767	Bromford East Tunnel Portal, Twisted Oak Stables	L	Yes	No	20.0	1.6	91.1	0	99.7
BETP002	417406, 290605	Bromford East Tunnel Portal, Attleboro Lane	М	Yes	No	12.9	1.3	21.1	0	2.4
CS001	408254, 287210	University Locks, Curzon Street	М	Yes	No	22.9	0.9	102.3	0	99.7
00288	407676, 287057	Curzon St – East Side City Park	н	Yes	No	28.1	1.67	278.92	1	99.9
00289	407450, 286896	Curzon St – Moor St Queensway	н	No	N/A	-	-	-	-	-

Table 3: Summary of exceedances of trigger level in March 2025

Monitoring site ID	Period exceeding trigger level	Investigation	Outcomes / Resolution / Remedial measures implemented
00288			Controls already in place to manage dust on site during warm / dry weather.





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