

Air Quality and Dust Monitoring Monthly Report – October 2025

Birmingham City Council



Department for Transport

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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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 October 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

- No works occurred during the monitoring period.

Curzon Street

- No works occurred during the monitoring period.

Bromford East Tunnel Portal (Sublot 1B)

- STP1 decommissioning.
- Supporting Deliveries.
- Site Generator.
- Site offices – maintenance / deliveries, etc.
- Road sweeping and dust suppression.
- Operation of 1 no. mechanical workshop.
- Muck away to SL Delta – haul roads.
- Operation of TBM material store.
- Aerodynamic structure.
- Building construction: tower crane operation.
- Tunnel strip out (including ground treatment and batching plant operation).
- Haul road in use 24/7 (concrete wagons and ADTs).

Curzon Street Station – Pre-main works

- Installation of bearing and secant piles
- Import of materials required for piling activities
- Export of excavated materials – including commencement of bulk dig
- Earthworks required for installation of site compound

- Excavation and construction of pile caps
- Movement and stockpiling of excavated materials within the site boundary

1.1.5 Eight (8) dust monitors are installed around these worksites, where works are underway. These sites returned a low to high 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 Two (2) dust trigger alerts were recorded during the monitoring period (October 2025).

1.1.10 Data capture was below 90% for multiple monitors:

- WHD003 (0%): A full dust work up took place on 9th October 2025. A field calibration took place on 31st October 2025.
- CS001 (0%): A monitor swap out was carried out on 10th November 2025.

1.1.11 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.

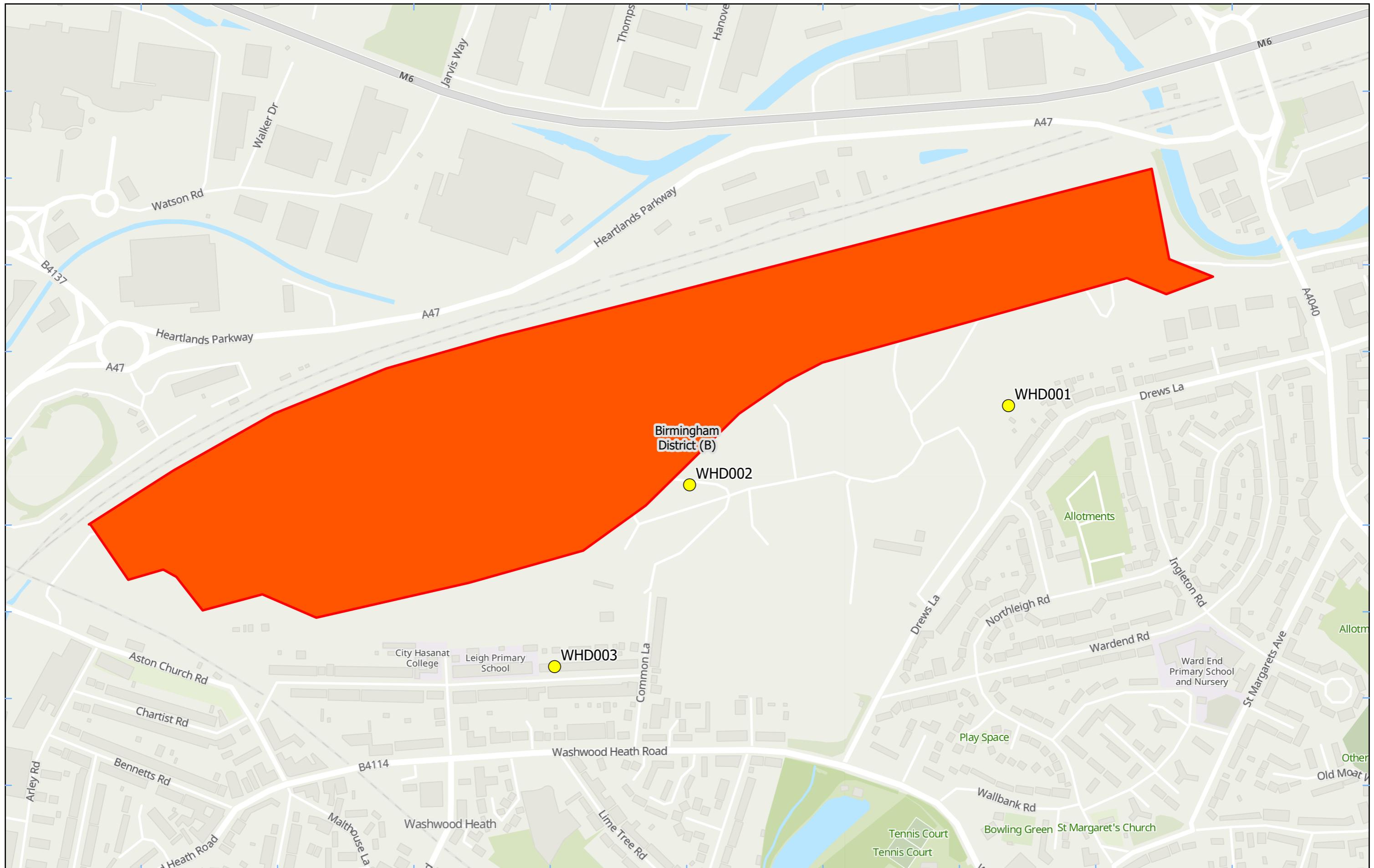
Table 1: Summary of complaints received during October 2025

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
HS2-25-46784-C	N/A	Increased amount of dust in the area.	All mitigation measures are in place to reduce dust in the area. All monitors were checked no exceedances were breached.

Appendix A – Worksites and Monitoring Locations

Figures 1 - 3: Worksites and Monitoring Locations within BCC







Legend

District Borough Unitary Boundaries

Worksite

Dust Monitor

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Map Number

Map Name

Worksite and Monitoring Locations
In BCC (Sheet 2)

Birmingham City Council



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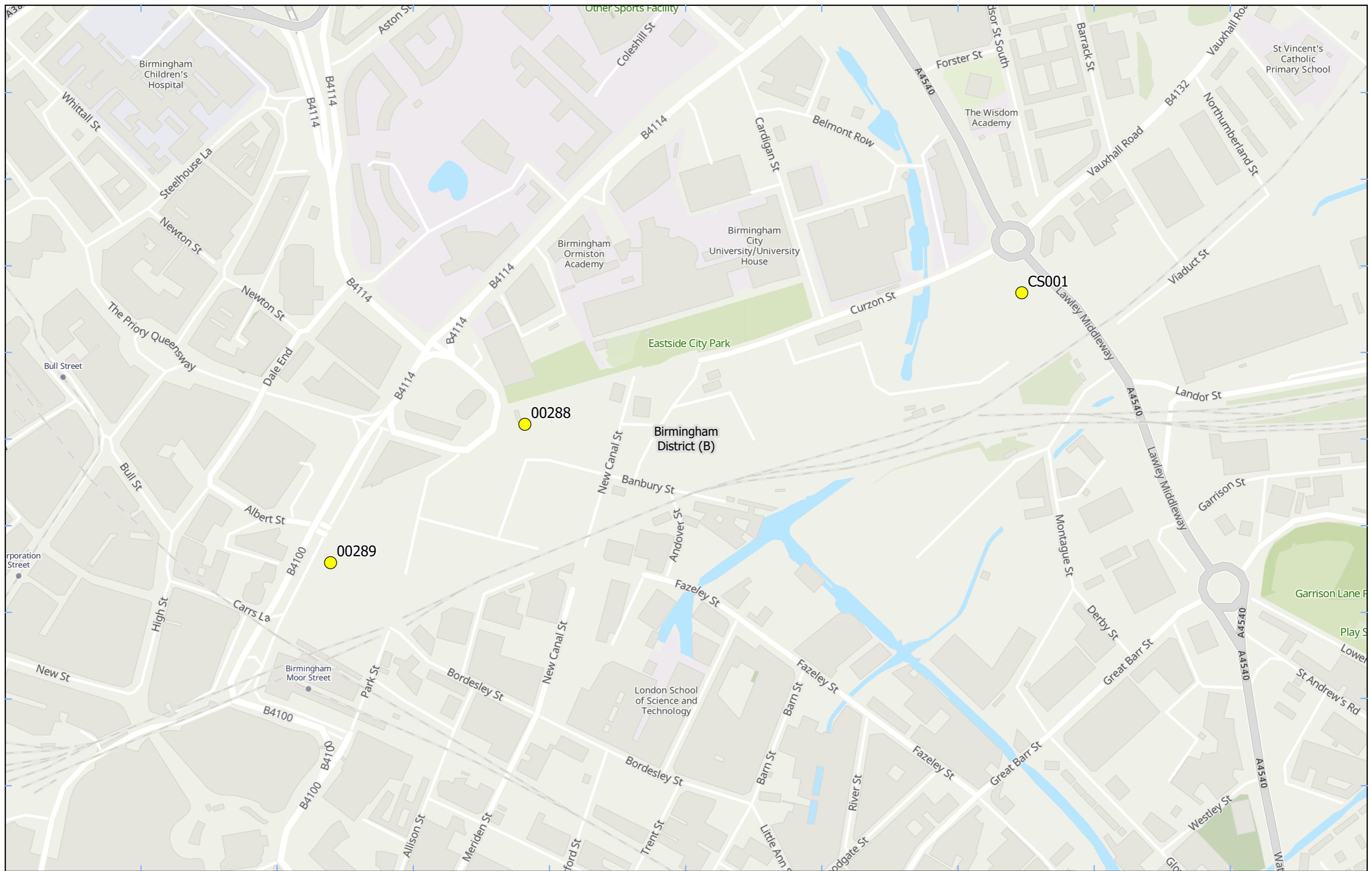
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Legend

- Yellow circle: Dust Monitor
- Dashed line: District Borough Unitary Boundaries

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Map Number	 Monitoring Locations In BCC (Sheet 3) Birmingham City Council
Map Name	
Doc Number:	

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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	411142, 289094	Washwood Heath Depot, near receptors on Drews Lane	M	Yes	No	2.7	0.1	26.8	0	95.6
WHD002	410750, 288985	Washwood Heath Depot, near receptors on Common Lane	M	Yes	No	7.7	0.1	44.5	0	99.7
WHD003	410623, 288913	Washwood Heath Depot, near receptors on Warren Road	M	Yes	No	-	-	-	-	-
BETP001	416630, 290801	Bromford East Tunnel Portal, Twisted Oak Stables	L	Yes	No	8.4	0.6	42.5	0	91.1
BETP002	417409, 290603	Bromford East Tunnel Portal, Attleboro Lane	M	Yes	No	2.0	0.1	31.6	0	92.6
CS001	408208, 287235	University Locks, Curzon Street	M	Yes	No	-	-	-	-	-
00288	407676, 287057	Curzon St – East Side City Park	H	Yes	N	21.9	1.5	554.7	12	99.9
00289	407450, 286896	Curzon St – Moor St Queensway	H	Yes	N	54.1	5.3	1409.3	21	99.3

Table 3: Summary of exceedances during period (October 2025)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
00288	12/10/2025 – 08.00 21/10/2025 – 15.00 – 16.00 22/10/2025 – 09.00, 12.00-13.00, 15.00, 17.00 24/10/2025 – 13.00 – 15.00 28/10/2025 – 15.00	Trigger alerts on 12/10/25 due to weather (fog). 21/10/2025 – no evidence of dust, and site still damp from recent rainfall. 22/10/2025 – no evidence of dust, still damp from recent rainfall 24/10/2025 – no evidence of dust and dust mitigation measures in place along haulage route (damping down). 28/10/2025 – no evidence of dust and dust mitigation measures in place along haulage route (damping down).	All measures in place during dry weather.
00289	12/10/2025 – 07.00 - 11.00 12/10/2025 – 23.00-00.00 13/10/2025 - 03.00 – 10.00 20/10/2025 – 02.00 – 07.00	Trigger alerts on 12/10/25, 13/10/25 and 20/10/2025 due to weather. No activities were taking place outside the core working hours and fog was present.	All measures in place during dry weather.

Figure 4: Construction dust 1-hour mean indicative PM₁₀ concentration for all dust monitors

