

Air Quality and Dust Monitoring Monthly Report – September 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 September 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.
- Installing drainage line close to site hoarding.
- 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.
- De-vegetation works along site boundary close to MPB compound.

Curzon Street

- Underground drainage works.
- Tripod dismantling and installations.
- Excavators, mobile crane and roller working at site.
- 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.

Bromford East Tunnel Portal (Sublot 1B)

- Operation of TBM2 and STP1
- Supporting deliveries
- Site generator
- Maintenance and deliveries to site office
- Road sweeping and dust suppression
- Operation of 1 mechanical workshop
- Muck away to SL delta
- Operation of TBM material store
- Aerodynamic structure
- Building construction and tower crane operation
- Tunnel strip out (including ground treatment and batching plant operation)

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.

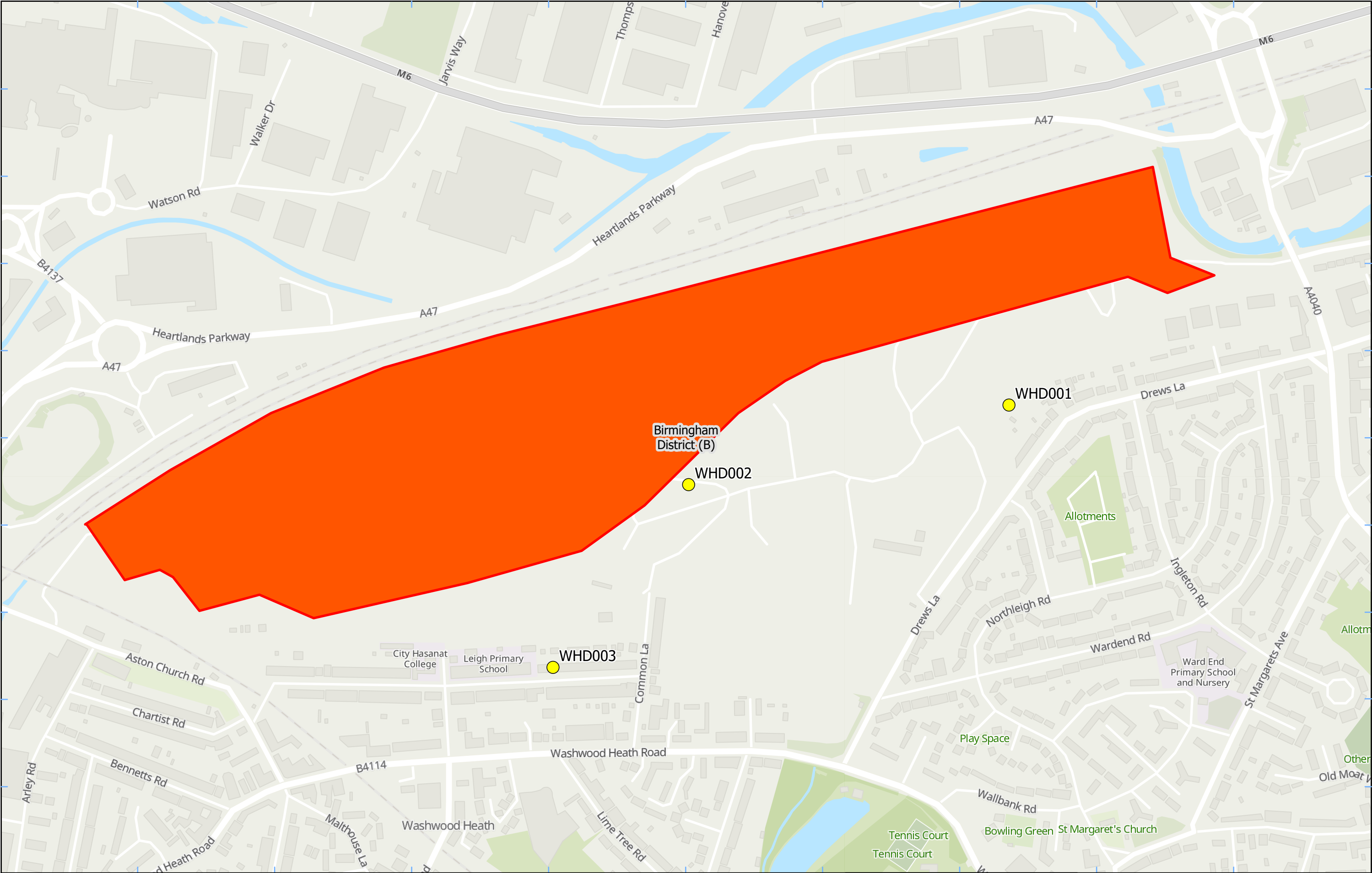
1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from each dust monitor, presented in Figure 4. All continuous dust monitoring is undertaken using indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative 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 2.
- 1.1.9 Five (5) dust trigger alerts were recorded during the monitoring period (September 2025).
- 1.1.10 Data capture was below 90% for multiple monitors:
- BETP001: A fault occurred. A field calibration was carried out on 12th September 2025. A monitor swap out was carried out on 2nd October 2025, after which the fault was resolved.
 - BETP002 & CS001: Weather conditions contributed to a lower data capture than expected at these monitors.
- 1.1.11 There were no (0) complaints received during the reporting period (September 2025).

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 1)**

Birmingham City Council

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Legend

District Borough Unitary Boundaries Worksite

Dust Monitor

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Map Number

Map Name

**Worksite and Monitoring Locations
In BCC (Sheet 2)**

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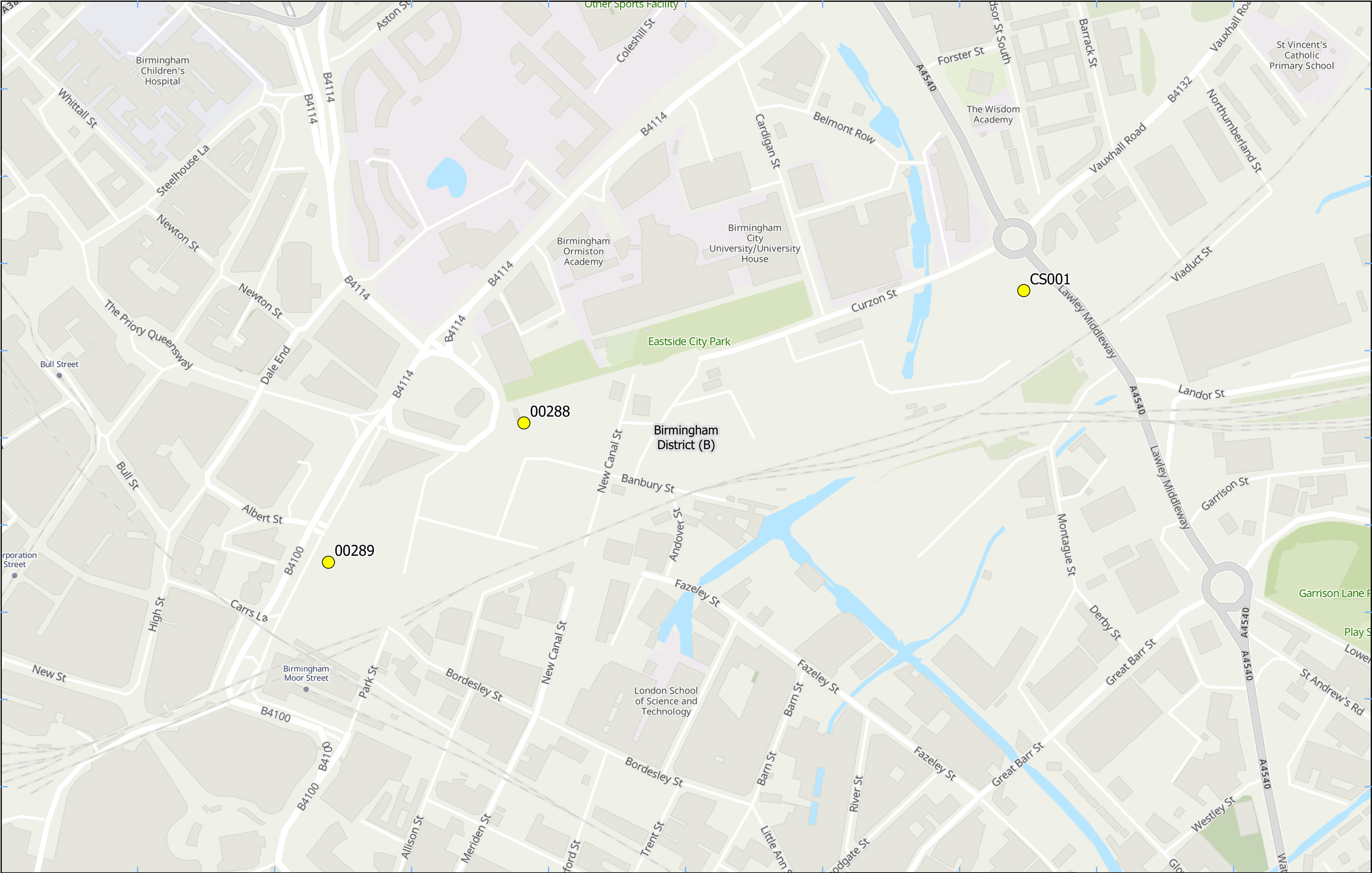
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Metres

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Legend

- Dust Monitor
- District Borough Unitary Boundaries

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Map Number

Map Name

**Monitoring Locations
In BCC (Sheet 3)**

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Appendix B – Dust Monitoring Results

Table 1: 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	6.5	0.2	57.5	0	96.6
WHD002	410750, 288985	Washwood Heath Depot, near receptors on Common Lane	M	Yes	No	5.9	0.1	49.5	0	96.8
WHD003	410623, 288913	Washwood Heath Depot, near receptors on Warren Road	M	Yes	No	0.9	0.1	16.8	0	91.7
BETP001	416630, 290801	Bromford East Tunnel Portal, Twisted Oak Stables	L	Yes	No	5.1	0.9	31.6	0	44.5
BETP002	417409, 290603	Bromford East Tunnel Portal, Attleboro Lane	M	Yes	No	3.0	0.1	98.3	0	88.6
CS001	408208, 287235	University Locks, Curzon Street	M	Yes	No	0.6	0.1	11.5	0	76.1
00288	407676, 287057	Curzon St – East Side City Park	H	Yes	N	21.3	1.6	403.4	5	93.3
00289	407450, 286896	Curzon St – Moor St Queensway	H	Yes	N	36.8	3.8	168.2	0	96.8

Table 2: Summary of exceedances during period (September 2025)

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
00288	05/09/2025 – 16.00 – 194.84 08/09/2025 – 12.00 – 222.96 08/09/2025 – 15.00 – 403.39 08/09/2025 – 16.00 – 258.2 12/09/2025 – 13.00 – 244.56	External contractor working along site boundary where hoarding has temporarily been replaced with Safe Fence near the dust monitor. During this time works were being undertaken near the dust monitor resulting in triggers	Works in close proximity to monitoring equipment. All practicable controls in place to manage dust on site during dry weather including road sweeper & multiple bowzers along the haul road.

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

