

Air Quality and Dust Monitoring Monthly Report – July 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 July 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.
- Small tools work installing Vehicle Restraint System (VRS) fencing.
- 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

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

Curzon Street Station – Pre-main works

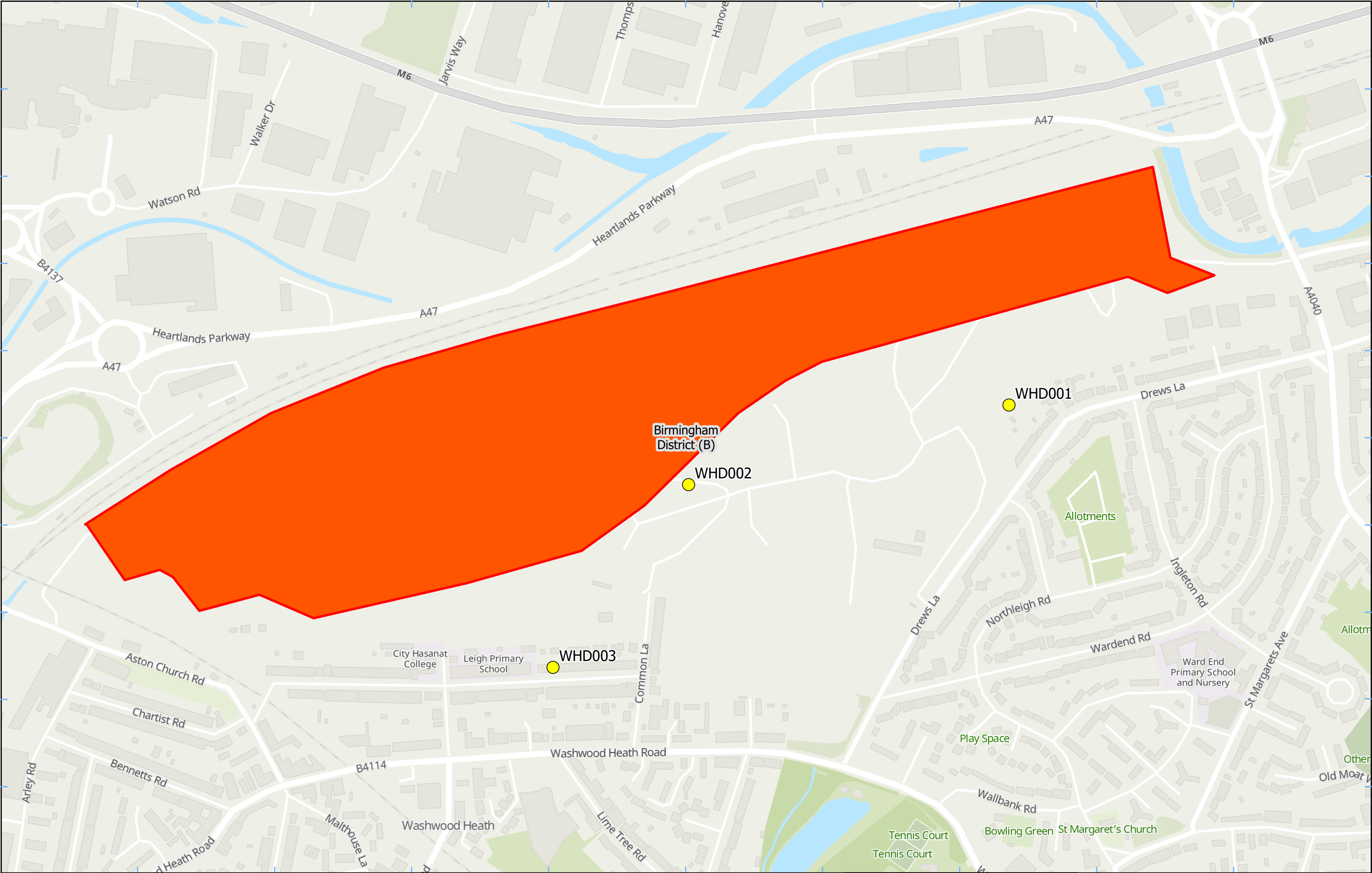
- Installation of bearing and secant piles
- Import of materials required for piling activities

- Export of excavated materials – including commencement of bulk dig
- Earthworks required for installation of site compound
- Excavation and construction of pile caps.

- 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 Data capture was below 90% for 00288 monitor due to a monitor swap out, and it's replacement on the 08/07/2025.
- 1.1.10 There were no (0) complaints received during the reporting period (July 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)**

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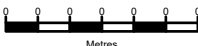
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Scale at A3: 1:5,000



Date: 22/01/24



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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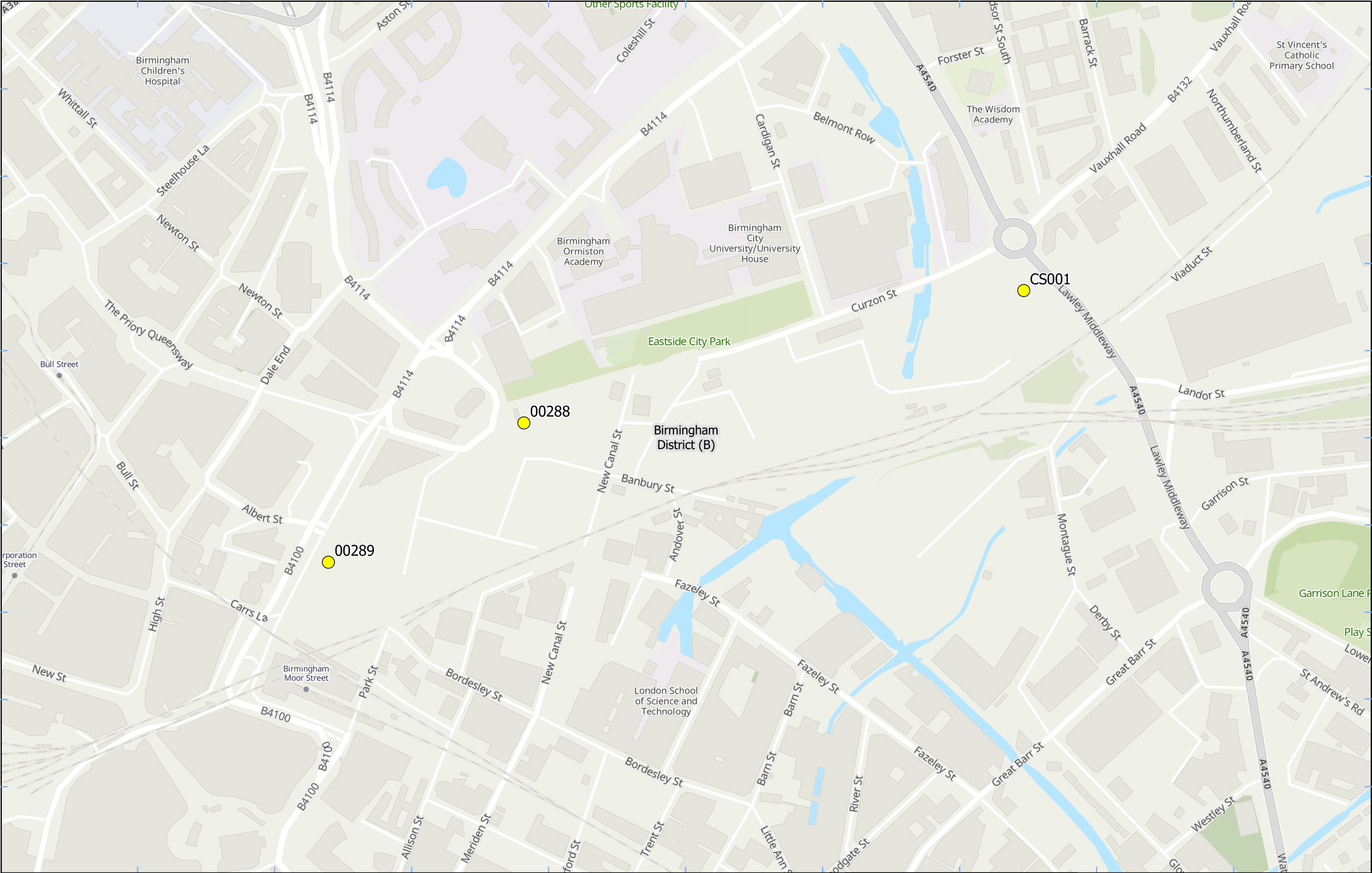
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Scale at A3: 1:4,000

Metres

Date: 22/01/24



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	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	M	Yes	No	9.6	0.1	92.0	0	100.0
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	M	Yes	No	8.1	0.4	55.4	0	100.0
WHD003	410562, 288866	Washwood Heath Depot, near receptors on Warren Road	M	Yes	No	2.0	0.1	21.9	0	97.8
BETP001	416719, 290767	Bromford East Tunnel Portal, Twisted Oak Stables	L	Yes	No	9.3	0.1	100.0	0	100.0
BETP002	417406, 290605	Bromford East Tunnel Portal, Attleboro Lane	M	Yes	No	7.1	0.1	30.5	0	99.3
CS001	408254, 287210	University Locks, Curzon Street	M	Yes	No	8.7	0.4	84.7	0	100.0
00288	407676, 287057	Curzon St – East Side City Park	H	Yes	No	28.2	2.2	287.7	6	76.2
00289	407450, 286896	Curzon St – Moor St Queensway	H	Yes	No	29.9	2.4	281.5	6	100.0

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

Monitoring Site ID	Period of trigger alert & Concentration recorded	Investigation	Outcomes / Resolution / Remedial measures implemented
00288	18/07/2025: 11:01 - 12.00; 211.18 µg/m³ 12:01 - 13.00; 287.67 µg/m³ 13:01 - 14.00; 242.41 µg/m³ 21/07/2025: 12:01 - 13.00; 275.57 µg/m³ 13:01 - 14.00; 232.24 µg/m³ 30/07/2025: 13:01 - 14.00; 207.62 µg/m³	Extended period of dry weather on site at the time of trigger, dust controls in place to manage dust as much as practicable.	All controls already in place to manage dust on site during warm / dry weather including road sweeper & multiple bowzers along the haul road, dust cannon and hoses.
00289	01/07/2025: 09:01 - 10.00; 281.53 µg/m³ 02/07/2025: 14:01 - 15.00; 226.14 µg/m³ 03/07/2025: 12:01 - 13.00; 260.32 µg/m³ 14:01 - 15.00; 276.7 µg/m³ 04/07/2025: 15:01 - 16.00; 192.73 µg/m³ 24/07/2025: 05:01 - 06.00; 205.88 µg/m³	01/07/2025 – 04/07/2025 – Evidence of dust control measures in place including water bowser, hose & dust canon to manage stockpiling activities. 24/07/2025 – No works on site, so exceedance is not associated with any works / activities on site.	All controls already in place to manage dust on site during warm / dry weather including road sweeper & multiple bowzers along the haul road, dust cannon and hoses.

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



