

March 2023

# Air Quality and Dust Monitoring Monthly Report – March 2023 Birmingham City Council

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A report prepared by EWCs and MWCCs on behalf of HS<sub>2</sub> 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 air quality and dust monitoring undertaken within Birmingham City Council (BCC) during March 2023.
- 1.1.2 Figures 1-3 in Appendix A indicate the current worksites together with the dust monitoring locations for March 2023.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report monthly available from <a href="https://www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2">www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2</a>, 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, Figures 1-3, include:

#### Washwood Heath (Sublot 4)

• Operations along main haul road, including maintenance with dozer, excavator, ADT's and roller to compact.

• Maintenance of footpaths along the site boundary including installation of fencing and filling red and white barriers.

- Asbestos picking, sorting and bagging for disposal in managed area.
- Crushing and screening, including tipping ADTs and wagons, loading shovel and excavators in operation, managing of stockpiles and loading of ADTs and wagons.
- De-vegetation works to clear way for site control points and installation of the control bases using excavator and flat-bed trailer.

#### Bromford East Tunnel Portal (BETP) (Sublot 1B)

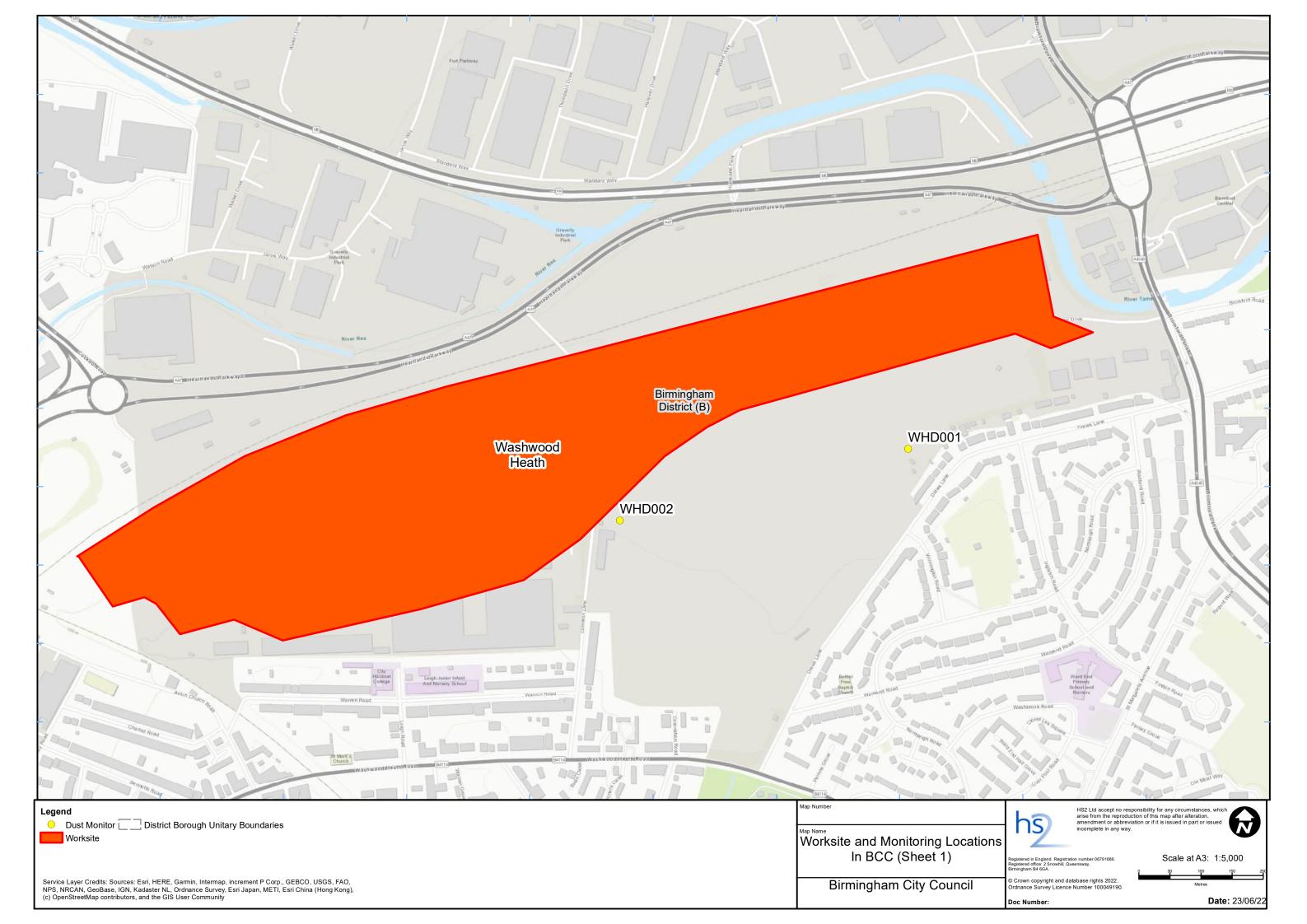
- TBM slurry line foundation.
- NGED Ducting.
- Backfield cooling tower slab and stone compacting.
- STP2 slab works & descending unit.
- Muck bin extension works & Lagoon works.
- STP1 loading shovel B.
- Blinding works for segment yard slab.
- Spiked out redundant WPD cable.
- Turf installation for haul road.
- Storage area and new offices foundation work (Park Hall).
- Operations along main haul road, including maintenance with dozer, excavator, ADT's and roller to compact.

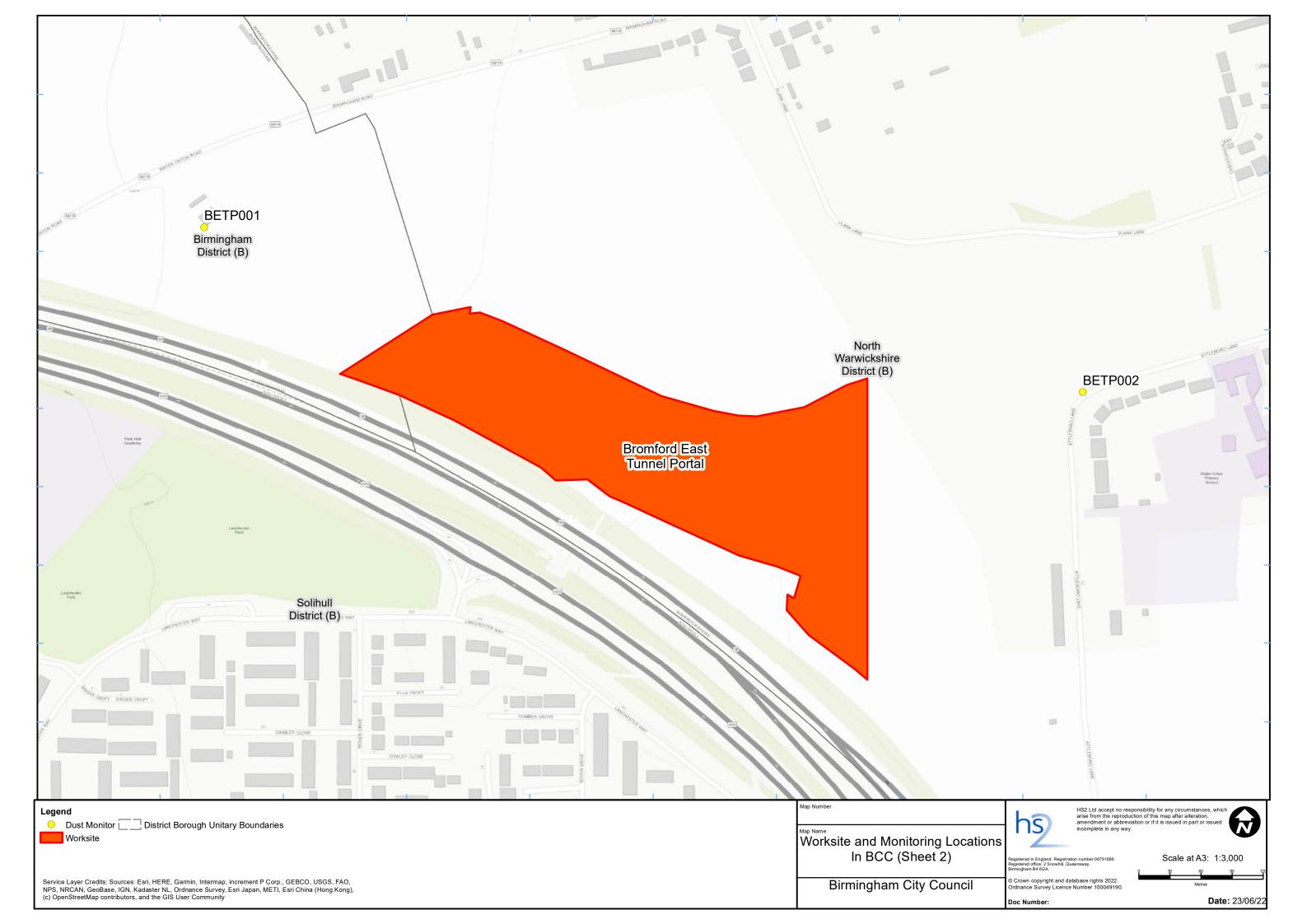
• Maintenance of footpaths along the site boundary including installation of fencing and filling red and white barriers.

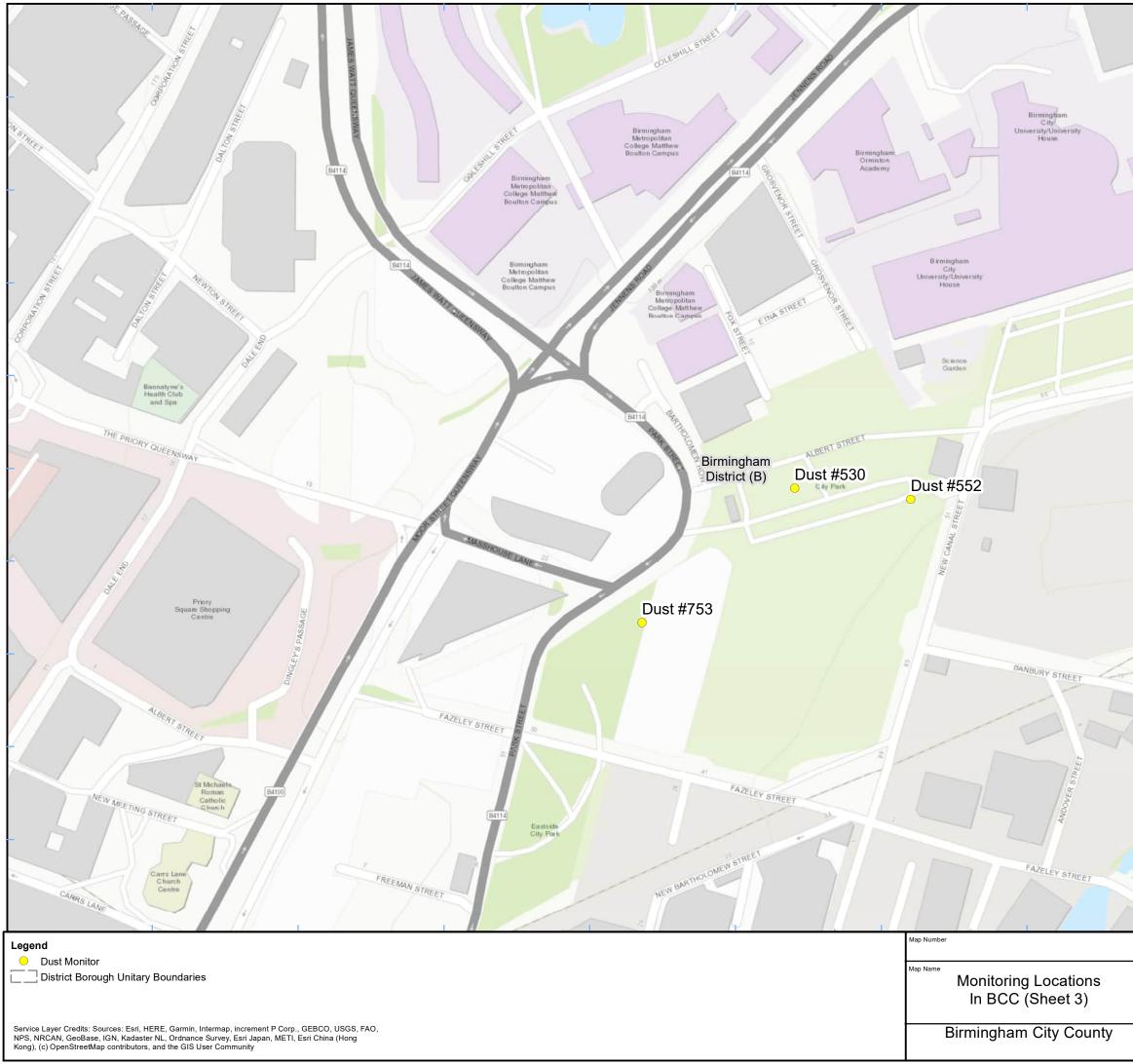
- 1.1.5 Four (4) dust monitors are installed at the worksites, where works are underway. These sites returned a medium dust risk rating.
- 1.1.6 The dust monitoring locations and results are presented in Appendix B, Table 1, together with line charts of monthly data from the dust monitors presented in 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 mitigations.
- 1.1.7 The trigger level for PM<sub>10</sub> concentrations of 190 μg/m<sup>3</sup>, 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 There were no (0) dust trigger alerts reported during the monitoring period (March 2023).
- 1.1.9 There were no (0) complaints received during this reporting period (March 2023).

### **Appendix A – Worksites and Monitoring Locations**

Figures 1-3: Worksites and Monitoring Locations within the BCC







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## **Appendix B – Dust Monitoring Results**

Table 1: Dust monitoring locations and March 2023 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 PM <sub>10</sub> concentration (µg/m³)	Minimum 1-hour PM <sub>10</sub> concentration (µg/m³)	Maximum 1- hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> )	Number of 1- hour periods exceeding trigger level of 190 µg/m <sup>3</sup>	Data capture (%)
WHD001	411221, 289245	Washwood Heath Depot, near receptors on Drews Lane	М	Yes	No	7.2	0.9	61.3	0	99.7
WHD002	410758, 289130	Washwood Heath Depot, near receptors on Common Lane	М	Yes	No	10.2	1.0	94.8	0	99.7
BETP001	416719, 290767	Bromford East Tunnel Portal, Twisted Oak Stables	М	Yes	No	1.8	0.1	43.0	0	99.7
BETP002	417406, 290605	Bromford East Tunnel Portal, Attleboro Lane	М	Yes	No	6.5	0.7	25.9	0	94.8

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Figure 4: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for all dust monitors

