

## **Air Quality and Dust Monitoring Monthly Report – March 2020**

**South Northamptonshire District Council**



## Department for Transport

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A report prepared by Fusion 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 in South Northamptonshire District Council (SNDC) during March 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location in March 2020.
- 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](http://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 phase of works commenced within SNDC during October 2019 and are expected to be completed by July 2020. The current works form part of Chipping Warden road-widening item of the DC3A Work Package and, as presented in Appendix A, Figure 1, include:
- Road box works: Ch 0 to Ch 350 place capping, Type 1 and install drainage;
  - Tree removal;
  - BT ducting works;
  - Main line: Ch 375 to Ch 500 Type 1 and base course;
  - Access track construction to base course;
  - Main line: Ch 525 to Ch 900 Type 1 and base course; and
  - Weekend working to construct on line carriageway.
- 1.1.5 One (1) dust monitor is installed around the worksites, where earthworks, construction and trackout activities are underway. These worksites returned a medium dust risk rating (for works currently active on site).
- 1.1.6 Dust monitoring location and results are presented in Appendix B, Table 1, together with a line chart of monthly data from this dust monitor presented in Figure 2. 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 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 recorded during the monitoring period (March 2020).
- 1.1.9        Data capture for dust monitor AQ001 was below 95% for the month of March 2020 due to unexpected occasional power outages in the area. As a result, the monitor was offline and no data was recorded on the 09/03/20 (between 00:00 and 07:00 a.m.) and between 24/03/20 (01:00 a.m.) and 25/03/20 (08:00 a.m.).
- 1.1.10      There were no (0) complaints, relating to dust or air quality, received during this monitoring period (March 2020).

**Chipping Warden Working Areas - March 2020**

**Road Box**  
Ch 0 to Ch 350 place capping, type 1 and install drainage.

**Main line:**  
CH 375 to Ch 500  
Type 1 and base course.

**Access Track**  
Construction to base course.

**Main line:**  
CH 525 to Ch 900 Type 1 and base course.

**BT Ducting.**

**Tree Removal.**

**Air Quality Monitor.**

**Weekend working to construct on line carriageway. 6th-9th March 2020**

**NOT FOR CONSTRUCTION**

**INTERNAL DESIGN CHECK BOX**

**SHE HAZARD BOX**

**NOTES**

**LEGEND**

**LIMITS OF DIVISION**

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## Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and March 2020 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/m <sup>3</sup> ) | Minimum 1-hour PM <sub>10</sub> concentration (µg/m <sup>3</sup> ) | 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 (%) |
|--------------------|-------------------|---|---------------------------|--------------------------------------|---|---|--|--|---|------------------|
| AQ001              | 449728, 248774    | Secured to a lamppost by a footpath connecting Banbury Road to Allens Orchard | M                         | Yes                                  | No  | 9.2   | 0.4  | 32.8   | 0   | 94.5             |

Figure 2: Construction dust 1-hour mean indicative PM<sub>10</sub> concentration for dust monitor AQ001

