

Air Quality and Dust Monitoring Monthly Report – September 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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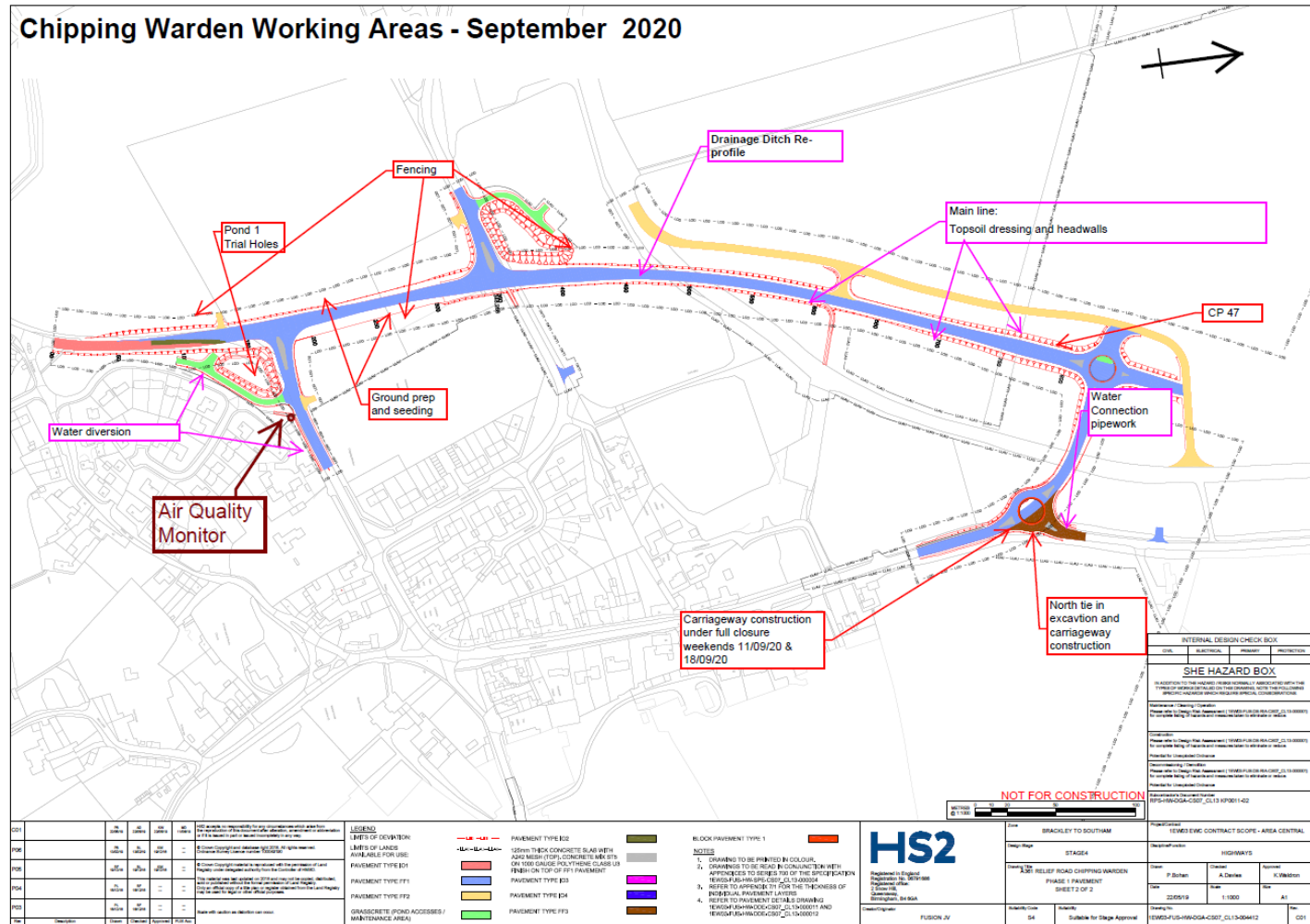
Monthly Summary

- 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 September 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current work sites together with the dust monitoring location in September 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, 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 is expected to be completed by December 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:
- Water diversions at the Pond 1 location;
 - Trial holes at the Pond 1 location;
 - Fencing installation throughout;
 - Soil preparation and seeding throughout;
 - Drainage and ditch works to mainline; and
 - Carriageway construction at the north tie in.
- 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). Dust monitoring location are presented in Appendix B. It was not possible to connect the monitor to the mains power supply; therefore, the monitor is powered using two 12V batteries, which are changed three times a week by a member of the Fusion site team.
- 1.1.6 Dust monitoring 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 instruments categorised as indicative monitors. Despite being Environment Agency (MCERTS) certified, indicative monitors have a wider measurement 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 verify 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 There were no (0) dust trigger alerts recorded during the monitoring period (September 2020). All results were in line with expected ranges.
- 1.1.9 There were no (0) complaints, relating to dust or air quality, received during this reporting period (September 2020).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring locations during September 2020 within South Northamptonshire District Council



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and Results (1st September 2020 – 30th September 2020)

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 ₁₀ concentration (µg/m ³)	Minimum 1-hour PM ₁₀ concentration (µg/m ³)	Maximum 1-hour PM ₁₀ concentration (µg/m ³)	Number of 1-hour periods exceeding trigger level of 190 µg/m ³	Data capture (%)
AQ001	449728, 248774	Secured to a lamppost by a footpath connecting Banbury Road to Allens Orchard	M	Yes	No	10	1.5	103.6	0	96

Figure 2: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitor AQ001

