

Air Quality and Dust Monitoring Monthly Report – June 2020

South Northamptonshire District Council



Department for Transport

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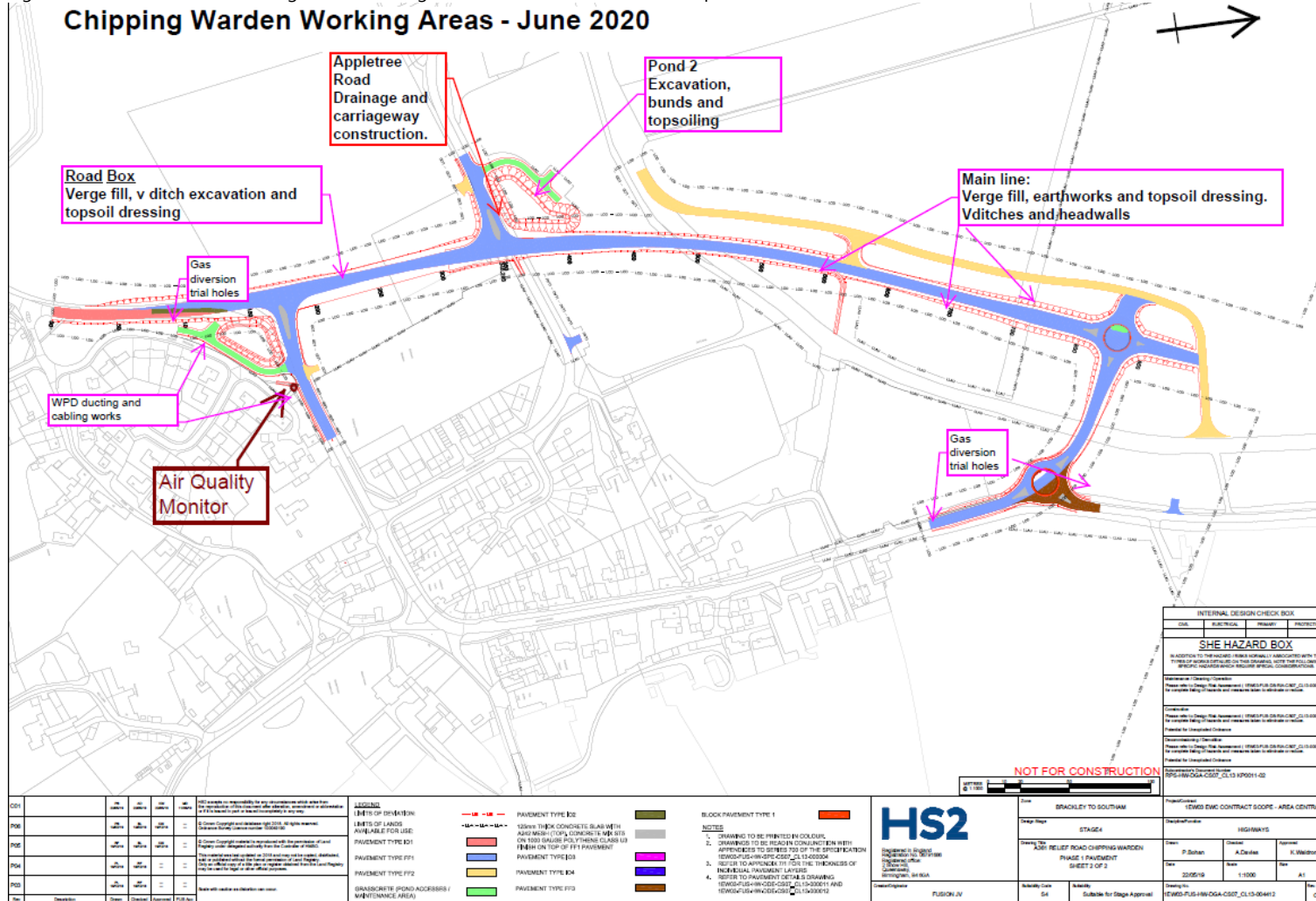
Monthly Summary

- 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 June 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksites together with the dust monitoring location in June 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 are expected to be completed later in 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:
- WPD ducting and cabling works;
 - Gas diversion trial holes;
 - Road box: Verge fill, v ditch excavation and topsoil dressing;
 - Appletree Road Drainage and carriageway construction;
 - Pond 2 excavation, bunds and topsoiling; and
 - Main line: Verge fill, earthworks and topsoil dressing. V ditches and headwalls.
- 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 for June 2020 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 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 Data capture for dust monitor AQ001 was below 90% for the month of June 2020 due to an airflow error occurred on 01/06/20 and five unexpected power outages. As a result, the monitor was offline and no data was recorded between the 01/06/20 and 09/06/20, when the monitor was replaced. Further data losses due to the power outages occurred between 10/06/2020 14:00 – 11/06/2020 06:00, 14/06/2020 12:00 – 15/06/2020 06:00, 19/06/2020 08:00 – 20/06/2020 06:00, 23/06/2020 22:00 – 24/06/2020 06:00 and also between 27/06/2020 18:00 – 28/06/2020 06:00. To solve these outages, the batteries were replaced and the monitoring was resumed.
- 1.1.9 There were no (0) dust trigger alerts recorded during the monitoring period (June 2020).
- 1.1.10 There were no (0) complaints, relating to dust or air quality, received during this reporting period (June 2020).

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksites and Monitoring location during June 2020 within South Northamptonshire District Council



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and Results (1st June 2020 – 30th June 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	7.2	0.6	26.0	0	61

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

