

Air Quality and Dust Monitoring Monthly Report – October 2018

Three Rivers District 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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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 the Three Rivers District Council (TRDC) during October 2018.
- 1.1.2 Figure 1 in Appendix A indicates the current work sites together with dust and air quality monitoring locations for October 2018.
- 1.1.3 This summary should be read in conjunction with the overview monitoring report 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 July 2017, and is expected to be completed in March 2019. The current worksites, as presented in Appendix A, Figure 1, include:
- Construction of a new entry slip onto the clockwise M25, from Shire Lane to include: associated drainage, utilities, lighting, signage and road markings to full motorway standards.
 - Construction of a new exit slip from the anti-clockwise M25, connecting to Chalfont Lane to include: associated drainage, utilities, lighting, signage and road markings to full motorway standards.
 - Construction of a Chalfont Lane diversion road between Shire Lane and Hornhill Road to include a temporary road to Local Authority Highway standards, a junction with Shire Lane and Hornhill Lane and associated signage on local roads.
 - Construction of a new junction for access to Orchards caravan park and footpath CSP/16/1.
 - Widening of Chalfont Lane between the M25 exit slip and Denham Way to include: a bell mouth access to a future Scottish and Southern Energy (SSE) sub-station, accesses to the future High Speed 2 (HS2) construction compound south of Chalfont Lane and construction of BT and City Fibre ducts and chamber diversions along Chalfont Lane.
- 1.1.5 Foundations have been installed at tower PMA222R, the pad around this has been reduced in size to allow Amey's works to progress and the entrance road has been moved to the North of the pad. The crane pad has been installed at PMA222R. Haul road to PMA224 is under construction but works have stopped as access to the site will not allow stone wagons to deliver. Platform at PMA224R will be on 14 /11/2018. Platform for the Southern compound has been scrapped.
- 1.1.6 One (1) dust monitor is installed around the worksite, where construction works are underway. This site was classified with a medium dust risk rating, in accordance with the

methodology described in the Overview Monitoring Report, available from www.gov.uk/government/collections/monitoring-the-environmental-effects-of-hs2, in line with the IAQM Guidance (2014) on the assessment of dust from demolition and construction activities.

- 1.1.7 The dust monitoring location, line graph and results are presented in Appendix B, Table 1.
- 1.1.8 No (0) exceedances of the dust trigger level were recorded during the October 2018 monitoring period. Osborne's construction works continued to increase along Chalfont Lane in October.
- 1.1.9 There were no complaints received, relating to air quality, during this monitoring period.

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksite locations during October 2018 in TRDC

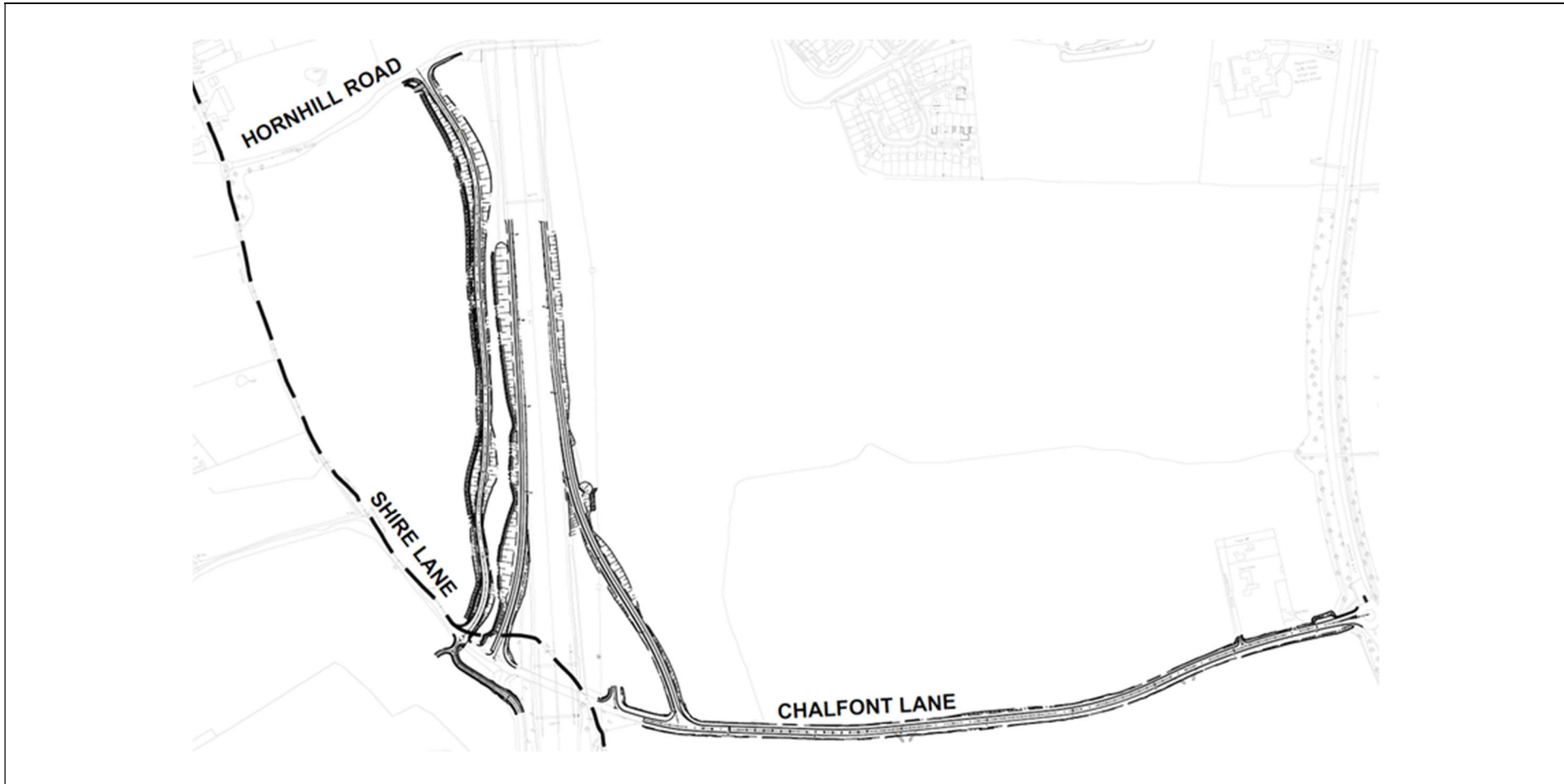


Figure Name

Worksite locations during October 2018 in TRDC

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Figure 2: Monitoring locations during October 2018 in TRDC



Figure Name

Monitoring locations during October 2018 in TRDC

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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and October 2018 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 15-minute PM10 concentration ($\mu\text{g}/\text{m}^3$)	Minimum 15-minute PM10 concentration ($\mu\text{g}/\text{m}^3$)	Maximum 15-minute PM10 concentration ($\mu\text{g}/\text{m}^3$)	Number of 15-min periods exceeding trigger level of $250 \mu\text{g}/\text{m}^3$	15-min data capture (%)
M25 Slip Roads	51.613059, -0.515667	Chalfont Lane	M	Yes	No	0.3	0	6	0	100.0

Figure 3: Construction dust 15-minute mean indicative PM₁₀ concentration for dust monitors

