

Air Quality and Dust Monitoring Monthly Report – December 2018

Three Rivers 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 the Three Rivers District Council (TRDC) during December 2018.
- 1.1.2 Figure 1 in Appendix A indicates the current work sites together with dust monitoring locations for December 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 May 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.
 - Trial trenching, installation of stock fencing, assembling and erection of transfer conductors, removal of conductors as well as the commencement of earthworks at the Grid Substation to the north of Chalfont Lane.
- 1.1.5 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.
- 1.1.6 The dust monitoring location, line graph and results are presented in Appendix B, Table 1.
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- 1.1.7 No (0) exceedances of the dust trigger level were recorded during the December 2018 monitoring period. Osborne's construction works remain focussed along Chalfont Lane in December, in the vicinity of the main receptors and the monitor (near Sunnyhill Road).
- 1.1.8 There were no complaints received, relating to air quality, during this monitoring period.

Appendix A – Worksites and Monitoring Locations

Figure 1: Worksite locations during December 2018 in TRDC

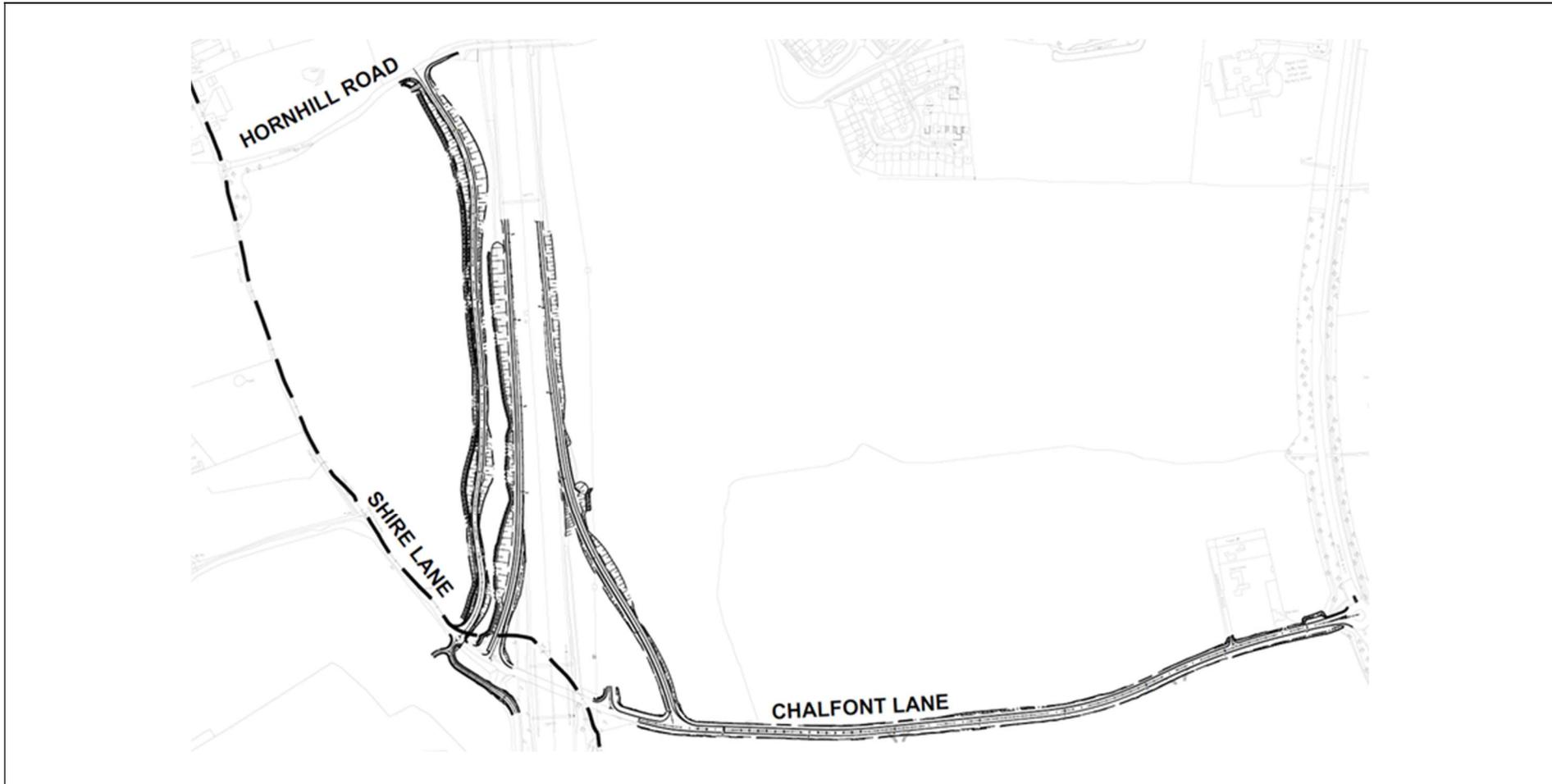


Figure Name

Worksite locations during December 2018 in TRDC

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Figure 2: Monitoring locations during December 2018 in TRDC



Figure Name

Monitoring locations during December 2018 in TRDC

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Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and December 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	0.05	0	1.1	0	100

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

Graph

