

Air Quality and Dust Monitoring Monthly Report – January 2019

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 January 2019.
- 1.1.2 Figure 1 in Appendix A indicates the current worksite together with dust monitoring location for January 2019.
- 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 within TRDC during July 2017, and are expected to be completed by 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.
- 1.1.5 SSEN works continued over January 2019, with the removal of PMA222/223 & 224 Foundations and the completion of the Haul Road, including a rumble strip and wheel wash. Demarcation fencing was erected, as well as the assembly of PMA223R & 224R, with the removal of the conductor between PMA222-223.
- 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.

- 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 January 2019 monitoring period. Osborne's construction works remain focussed along Chalfont Lane in January, in the vicinity of the main receptors and the monitor (near Sunnyhill Road).
- 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 January 2019 in TRDC

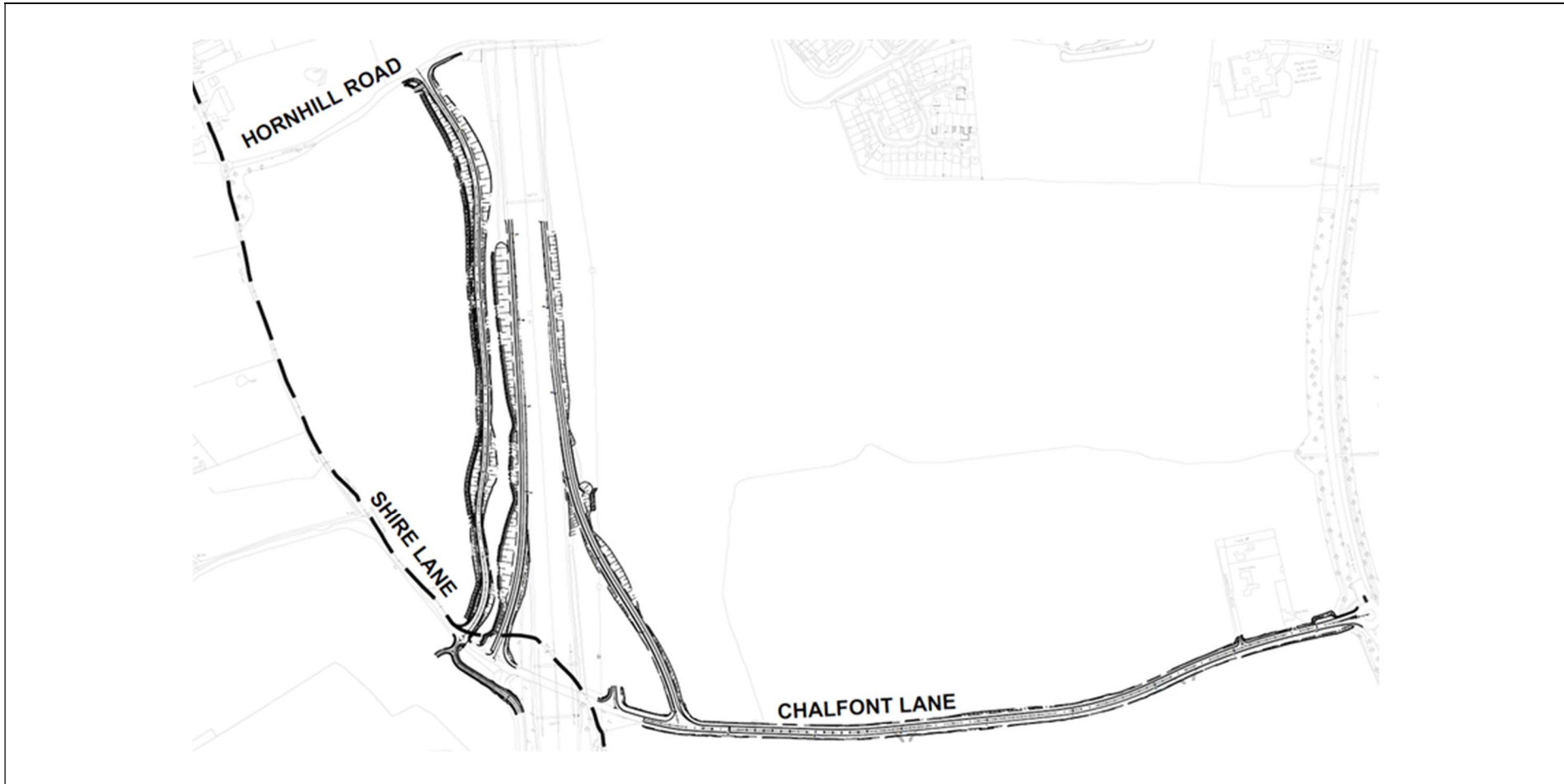


Figure Name

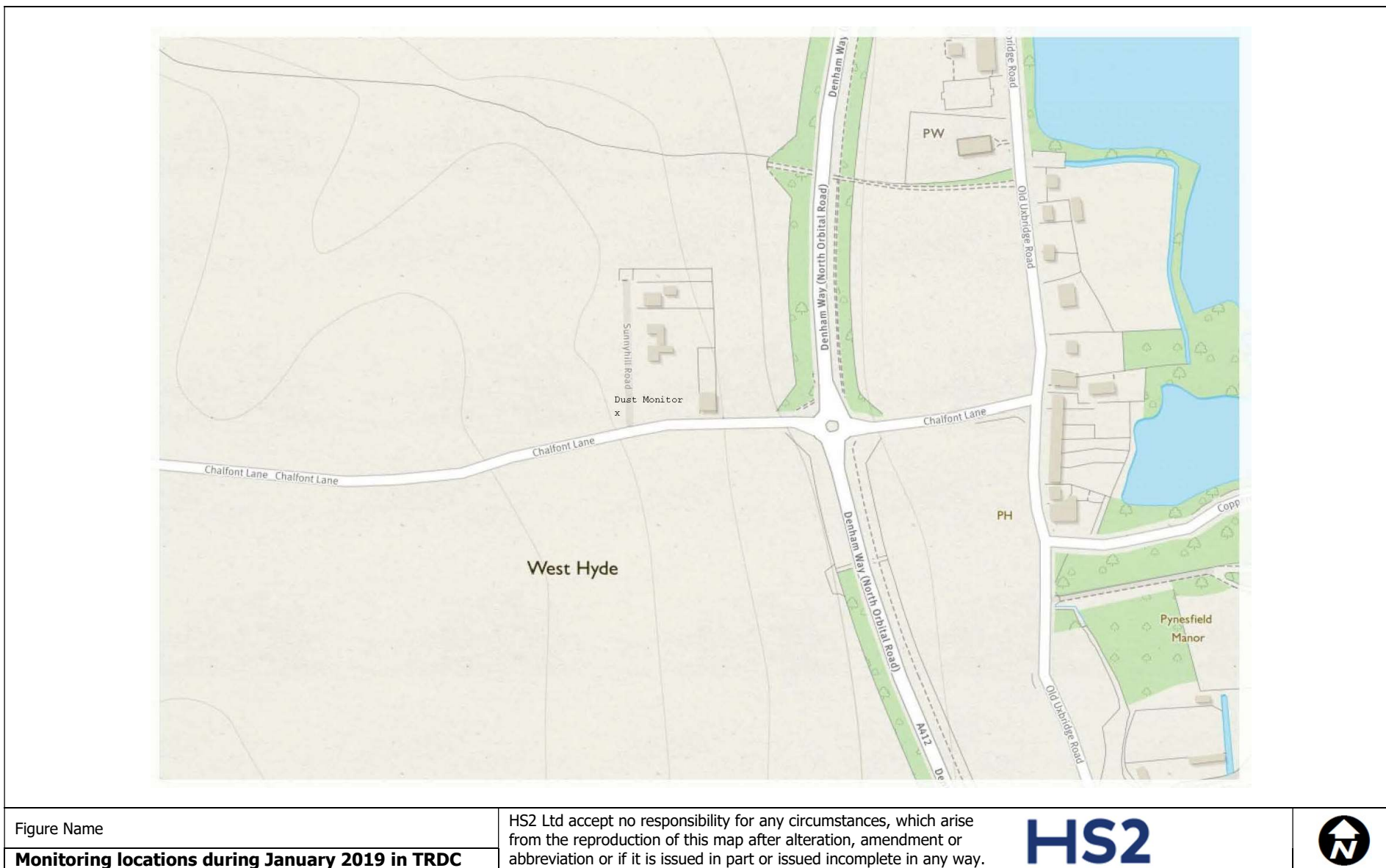
Worksite locations during January 2019 in TRDC

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Figure 2: Monitoring locations during January 2019 in TRDC



Appendix B – Dust Monitoring Results

Table 1: Dust monitoring locations and January 2019 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 PM ₁₀ concentration (µg/m ³)	Minimum 15 Minute PM ₁₀ concentration (µg/m ³)	Maximum 15 Minute PM ₁₀ concentration (µg/m ³)	Number of 15 Minute periods exceeding trigger level of 190 µg/m ³	15 minute data capture (%)
M25 Slip Roads	502882.700, 191476.600	Chalfont Lane	M	Yes	No	10.72	0.2	179.1	0	90

Figure 3: Construction dust 1-hour mean indicative PM₁₀ concentration for dust monitors

