

Air Quality and Dust Monitoring Monthly Report – May 2020

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 May 2020.
- 1.1.2 Figure 1 in Appendix A indicates the current worksite together with the dust monitoring locations for May 2020.
- 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 is currently ongoing. The current worksite at the Chiltern Tunnel South Portal Compound is presented in Appendix A, Figure 1. Due to COVID-19 the Southern Portal worksite has operated with a reduced workforce during May where the following activities took place:
- Ongoing works at the South Cutting, which include: soil nailing, drilling and grouting, canopy installation from 12/05 onward, cutting and detailed excavation for the 7th and 8th lifts of soil nails;
 - Ongoing works at the West Hyde Embankment, which include: filling and compaction grouting, drilling and grouting; and
 - Other ongoing works include grout block: drilling and grouting; stripping works at the STP Platform and stockpile areas; cutting at the Tunnel Precast Yard, Bp2-3 Platform, Viaduct Segment Storage Platform, Water Treatment Pond 3 and STP Platform; filling at the Tunnel Precast Yard, Viaduct Storage Yard, Water Treatment Plant Platform and STP Platform; and grass cutting in Tilehouse Lane Field.
- 1.1.5 Two (2) dust monitors are installed around the worksite, where earthworks, construction and trackout activities are underway. These sites returned a medium dust risk rating (for works currently active on site).
- 1.1.6 Dust monitoring locations and results are presented in Appendix B, Table 2, together with a line chart of monthly data from each dust monitor presented in Figures 2 and 3. 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 mitigations.

- 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 May 2020 monitoring period.
- 1.1.9 Table 1 provides a summary of the complaint information related to dust or air quality received during the reporting period (June 2020), together with the findings of any related investigations.

Table 1: Summary of complaints received during June 2020 in TRDC

Complaint Reference No.	Worksite Reference	Description of complaint	Results of investigation
Comp1	-	A complaint around dust from the south portal was received on 28 th May 2020.	<p>A response was provided highlight the mitigation measures applied across HS2 sites to control dust.</p> <p>In particular the south portal site has 4 water bowsers working constantly to suppress dust on haul roads. Furthermore, the Chalfort Lane bund is now constructed and top soiled with seeding set to commence in September.</p> <p>Operatives on site are continually reminded around the importance of effective dust suppression and will continue to remain vigilant during the warmer, drier months ahead.</p>

Appendix A –Monitoring Locations

Figure 1: Worksites and Monitoring locations during May 2020



Appendix B – Dust Monitoring Results

Table 2: Dust monitoring locations and May 2020 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 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 (%)
SP-AQMP1-TRDC	502885, 191488	On the northern boundary of the site with Chalfont Lane	M	Yes	Yes	10.2	1.4	137.7	0	100
SP-AQMP2-TRDC	502872, 190833	On the southern boundary of the site with Denham Way	M	Yes	Yes	12.0	2.1	121.9	0	100

Figure 2: Continuous dust 1-hour mean indicative PM₁₀ concentration for SP-AQMP1-TRDC for May 2020

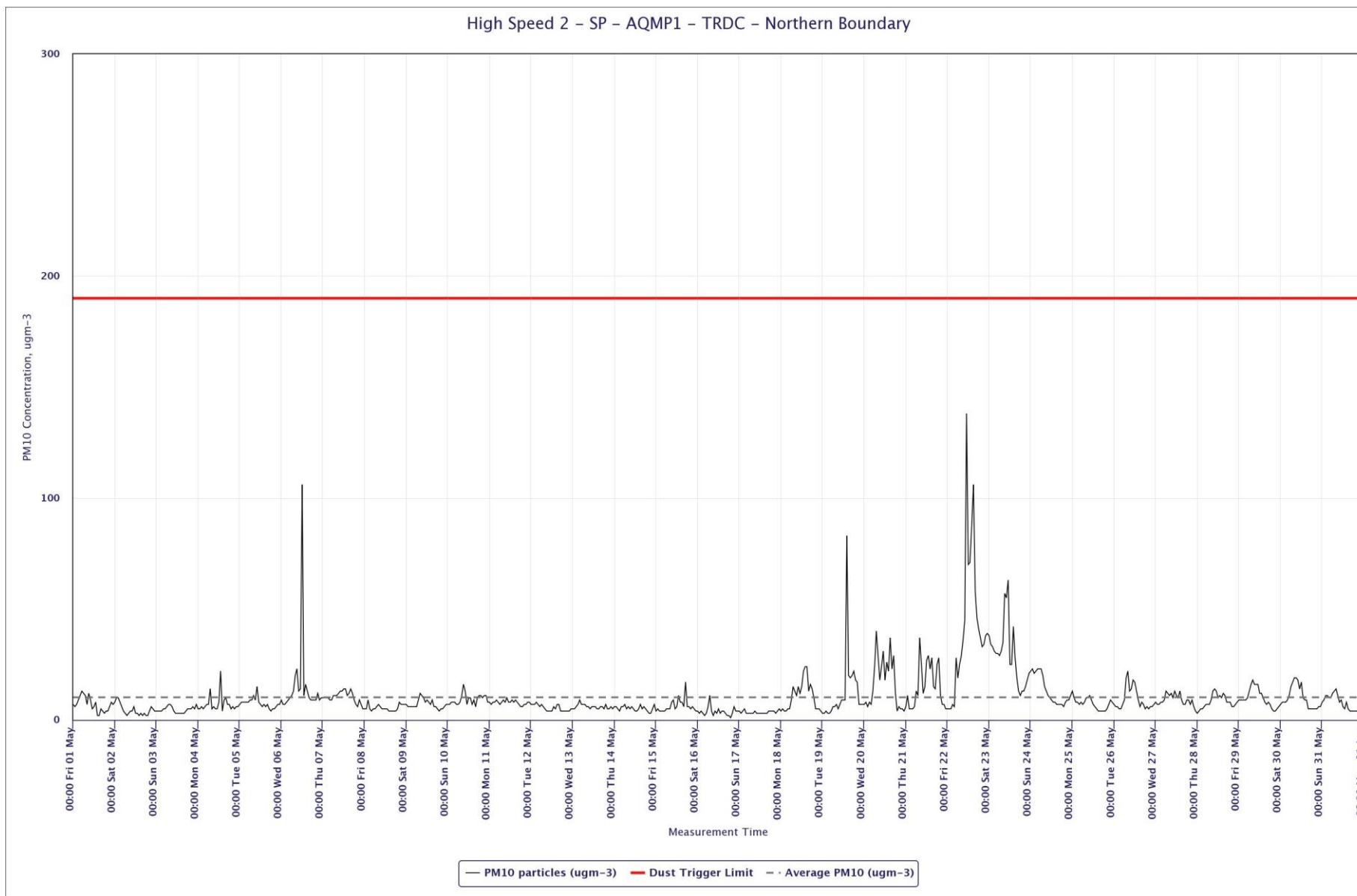


Figure 3: Continuous dust 1-hour mean indicative PM₁₀ concentration for SP-AQMP2-TRDC for May 2020

