

Site . Scropton Road . Scropton . Derbyshire

Construction dust and site water mitigation strategy

December 2024 – revised April 2025

Project Address: Land North of Scropton Lane . Scropton

Planning Reference: DMPA/2019/1198

Prepared by: James Nicholas Homes SPV 5 Ltd

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1. Introduction

This Dust Mitigation Scheme has been prepared in accordance with the Local Planning Authority's requirement for controlling dust emissions during the construction phase. It follows the guidance set out in the Institute of Air Quality Management (IAQM) documents:

1. *Guidance on the Assessment of Dust from Demolition and Construction* (2014),
2. *Guidance on the Assessment of the Impacts of Construction on Air Quality and the Determination of their Significance* (2024 update).

The scheme identifies dust-generating activities and sets out control measures to mitigate emissions and limit their impact on nearby sensitive receptors.

2. Site Description and Context

The development is located Land north of Scropton Lane, Scropton, within proximity to dwellings and land adjacent the approved housing site.

The construction activities will include:

1. Site clearance and groundworks
2. Excavation and piling
3. Concrete pouring and material handling
4. Building construction and external works

Based on the site location and activities, this scheme has been developed to suit a **Medium Risk** site classification, determined using the IAQM's risk assessment methodology.

3. Risk Assessment Summary

Source	Risk Category	Key Receptors
Earthworks	Medium	[e.g. Nearby houses within 50m]
Construction	Low	[e.g. Primary school 75m SE]
Trackout	Medium	[e.g. Access road with local traffic]

Overall Dust Risk: Medium

4. Dust Control Measures

The following best practice mitigation measures will be implemented throughout the construction phase:

a) Site Management

1. A named *Dust and Air Quality Manager* will be appointed, responsible for day-to-day dust monitoring and control.
2. Daily visual inspections and logging of dust levels, with enhanced checks during dry or windy conditions.
3. Staff training on dust minimisation measures.

b) Monitoring

1. Visual inspections to be undertaken regularly.

2. Dust complaints procedure to be in place and communicated to local residents.
3. Real-time dust monitors will be used if dust becomes problematic.

c) Communication

1. Clear contact details displayed at the site entrance.
2. Proactive updates to neighbouring properties before particularly dusty operations.

d) Dust Suppression Techniques

1. Water suppression (e.g. dampening down surfaces, use of bowsers or misters).
2. Screening or fencing around dusty activities or materials.
3. Avoiding drop heights when handling materials.
4. Sealing or covering stockpiles of loose material.

e) Transport and Trackout

1. Wheel-washing facilities at site exits.
2. Hardstanding site entrance and haul routes.
3. Dust-resistant sheeting on lorries transporting materials.
4. Limit on-site vehicle speeds to under 10mph.

5. Implementation and Review

1. This scheme will be implemented from the start of site works and remain in effect throughout the construction phase.
2. It will be reviewed monthly and updated as needed in response to weather conditions, construction activity, and any complaints received.

6. Conclusion

The site is deemed to be Medium risk in relation to the dust emission magnitude.

The site is flat and no demolition is required to build, the operations that could be required on site where dust is a factor will be reduced by careful planning, (ie) blocks required that may normally need cutting, we will use a block splitter not a saw which removes dust. If crushing is required on site the process will be done with mist sprays to stop any pluming.

Only ground dust plumes due to wind and weather are non-controllable, however any additional dust will be kept to a minimum through good site house-keeping and changing and implementing the above listed methods during the build process.

Surface water during construction process

The site is flat and surface water run-off is currently non-existent, the land appears to currently be free-draining. The new surface water drainage system will take action as installed. If during the construction period we deem it necessary to install temporary drainage in heavy rainfall months we have spoken to Farmer / Land owner and we will use a temporary land drain pipe to take away and excess water to his natural irrigation channel.

James Nicholas Homes