East Midlands Gateway
Phase 2 (EMG2)

Document DCO 6.8I/MCO 6.8I

ENVIRONMENTAL STATEMENT

Volume 2 Technical Appendices

Appendix 8I

Mitigation

July 2025

The East Midlands Gateway Phase 2
and Highway Order 202X and The East Midlands Gateway
Rail Freight and Highway (Amendment) Order 202X

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Appendix 8i – Mitigation

Mitigation Measures

The following highly recommended and desirable best practice measures have been taken from the IAQM (2024) *Guidance on the Assessment of Dust from Demolition and Construction* document. Developers should implement the appropriate dust and pollution control measures set out below to ensure the air quality impacts of construction and demolition are minimised and any mitigation measures employed are effective.

These will need to be written into a dust management plan (DMP), which should be approved by the local planning authority prior to commencement of work on site. For major sites, the DMP may be integrated into a Code of Construction Practice or the Construction Environmental Management Plan, and compliance monitoring may be required.

The following measures set out in **Table 8i.1** have been split out to consider the potential mitigation for the **EMG2 Main Site**, the **EMG1 Works** and the **Highway Works**, which has been determined in **Chapter 8: Air Quality (DCO 6.8 / MCO 6.8)**.

Table 8i.1: Mitigation Measures

Mitigation Measure	EMG2 Main Site	EMG1 Works	Highway Works
Communications			
Develop and implement a stakeholder communications plan that includes community engagement before work commences on Site	✓		✓
Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary. This may be the environment manager/engineer or the site manager;	✓	✓	✓
Display the head or regional office contact information	✓	✓	✓
Develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the Local Authority	✓	✓	✓
Site Management			
Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken.	✓	✓	✓
Make the complaints log available to the local authority when asked.	✓	✓	✓

Mitigation Measure	EMG2 Main Site	EMG1 Works	Highway Works
Record any exceptional incidents that cause dust and/or air emissions, either on- or off-site, and the action taken to resolve the situation in the log book.	✓	✓	✓
Hold regular liaison meetings with other high risk construction sites within 250 m of the site boundary, to ensure plans are co-ordinated and dust and particulate matter emissions are minimised. It is important to understand the interactions of the off-site transport/deliveries which might be using the same strategic road network routes	✓	✓	✓
Monitoring			
Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary, with cleaning to be provided if necessary.	✓	✓	✓
Carry out regular site inspections to monitor compliance with the DMP, record inspection results, and make an inspection log available to the local authority when asked.	✓	✓	✓
Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.	✓	✓	✓
Agree dust deposition, dust flux, or real-time PM_{10} continuous monitoring locations with the Local Authority. Where possible commence baseline monitoring at least three months before work commences on site or, if it a large site, before work on a phase commences.	✓	✓	✓
Preparing and Maintaining the Site			
Plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible.	✓	✓	✓
Erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site.	✓	✓	✓

Mitigation Measure	EMG2 Main Site	EMG1 Works	Highway Works
Fully enclose site or specific operations where there is a high potential for dust production and the site is actives for an extensive period.	✓	✓	✓
Avoid site runoff of water or mud.	✓	✓	✓
Keep site fencing, barriers and scaffolding clean using wet methods.	✓	✓	✓
Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover as described below	✓	✓	✓
Cover, seed or fence stockpiles to prevent wind whipping	✓	✓	✓
Operating Vehicle / Machinery and Sustainable Travel			
Ensure (where possible) all on-road vehicles comply with the requirements.	✓	✓	✓
Ensure all vehicles switch off engines when stationary - no idling vehicles.	✓	✓	✓
Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable.	✓	✓	✓
Impose and signpost a maximum-speed-limit of 15 mph on surfaced and 10 mph on unsurfaced haul roads and work areas (if long haul routes are required these speeds may be increased with suitable additional control measures provided, subject to the approval of the nominated undertaker and with the agreement of the local authority, where appropriate).	✓	✓	✓
Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials.			
Implement a Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing).	✓		✓
Operations			
Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.	✓	✓	✓

Mitigation Measure	EMG2 Main Site	EMG1 Works	Highway Works
Ensure an adequate water supply on the site for effective dust/particulate matter suppression/ mitigation, using non-potable water where possible and appropriate.	✓	✓	✓
Use enclosed chutes and conveyors and covered skips.	✓	✓	✓
Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.	✓	✓	✓
Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.	✓	✓	✓
Waste Management			
No Bonfires and burning of waste materials	✓	✓	✓
Demolition			
Soft strip inside before demolition	N/A	N/A	✓
Ensure effective water suppression is used during demolition operations. Hand held sprays are more effective than hoses attached to equipment as the water can be directed to where it is needed. In addition high volume water suppression systems, manually controlled, can produce fine water droplets that effectively bring the dust particles to the ground.			✓
Avoid explosive blasting, using appropriate manual or mechanical alternatives.			✓
Bag and remove any biological debris or damp down such material before demolition.			✓
Earthworks			
Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable.	✓		✓
Use Hessian, mulches or trackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable.	✓		✓
Only remove the cover in small areas during work and not all at once.	✓		✓
Construction			

Mitigation Measure	EMG2 Main Site	EMG1 Works	Highway Works
Avoid scabbling (roughening of concrete surfaces) if possible.	✓	✓	✓
Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.	✓	✓	✓
Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery	✓	✓	
For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust.	✓	✓	
Trackout			
Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use.	✓	✓	✓
Avoid dry sweeping of large areas.	✓	✓	✓
Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.	✓	✓	✓
Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.	✓		✓
Record all inspections of haul routes and any subsequent action in a site log book.	✓	✓	✓
Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned.	✓		✓
Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable).	✓	✓	✓
Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits.	✓		✓
Access gates to be located at least 10 m from receptors where possible.	✓		✓