Appendix 5: Dust Management Plan (DMP)

Project: Hydro Aluminium Site Redevelopment, Wrexham Industrial Estate

Principal Contractor: UK Engineering

1.0 Introduction and Scope

This Dust Management Plan outlines the procedures to control and mitigate dust emissions during the construction phase at the Hydro Site. The primary focus of this plan is on Phase 1 (site setup, remediation, and clearance) and Phase 2 (groundworks, drainage installation, and formation of attenuation ponds). These phases involve significant earth-moving activities utilising 360 excavators, dumpers, and muck-away HGVs.

2.0 Regulatory Framework

Operations must comply with Wrexham County Borough Council (WCBC) planning conditions and Natural Resources Wales (NRW) guidelines, alongside the following overarching statutory UK and Welsh legislation:

- **Environmental Protection Act 1990 (Part III):** Classifies dust emissions that affect local amenities or pose health risks as a "statutory nuisance," giving local authorities the power to serve abatement notices.
- **Control of Substances Hazardous to Health Regulations 2002 (COSHH):** Protects workers from exposure to hazardous dust, particularly Respirable Crystalline Silica (RCS) generated during concrete and block cutting.
- **Environment Act 1995 (Local Air Quality Management):** Requires local authorities to assess air quality; construction sites must not cause breaches of local air quality objectives.
- **Well-being of Future Generations (Wales) Act 2015:** Mandates sustainable development practices, including minimising environmental pollution and protecting public health in Welsh communities.

3.0 Potential Dust Sources

During the initial groundworks and utilities installation, the primary sources of dust generation will include:

- Excavation and earthworks by 360 excavators.
- Movement of dumpers and muck-away HGVs over unpaved ground.
- Topsoil stripping and stockpiling.
- Cutting of concrete, blocks, or paving for utility trenches.
- Track-out of mud and debris onto the public highway, which subsequently dries and becomes airborne dust.

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4.0 Dust Control & Mitigation Measures

To prevent dust nuisances and ensure environmental compliance, the following controls will be strictly implemented:

Site Operations and Plant:

- Equipment used for cutting blocks or concrete will feature on-tool water suppression.
- A mandatory Tool box Talk will be provided for the project to cover COSHH / RCS (Respirable Crystalline Silica)
- An on-site speed limit of 10mph will be enforced to reduce dust generation from vehicle movements.

Vehicle and Traffic Management:

- All lorries and skips transporting loose material must be covered.
- Before entering the highway, all vehicles will be inspected for debris.
- If mud is tracked onto the public highway, a mechanical road sweeper will be deployed to clean it, this will happen twice daily at mid-morning and late afternoon.

Soil and Stockpile Management:

- Topsoil will be stored in bunds that do not exceed 2m in height to prevent anaerobic conditions.
- Soil bunds will be positioned away from trafficking areas to minimise disturbance and compaction.

5.0 Monitoring and Responsibilities

- **Daily Inspections:** The Site Manager is responsible for conducting daily visual dust inspections at the site boundary.
- **Incident Response:** All operatives must report accidents and spills immediately. In the event of a severe dust incident, operations causing the issue will be suspended until further damping down can be achieved.

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Weekly Dust Management Inspection Sheet

This sheet is to be completed weekly by the Site Manager to ensure ongoing compliance with the DMP. (Note: This supplements the required daily visual boundary checks.)

Inspection Item	Yes / No / N/A	Comments / Corrective Actions
Are boundary visual dust inspections being completed daily?		
Is the 10mph speed limit being adhered to by all site traffic?		
Do all concrete/block cutting tools have active water suppression?		
Are all muck-away HGVs and skips covered before leaving the site?		
Are vehicles checked for debris before entering the public highway?		
Is the public road clear of tracked mud (or has a sweeper been booked)?		
Are soil storage bunds kept under 2m in height?		
Are soil bunds located safely away from areas of vehicle traffic?		

Inspected By (Name):

Signature:

Date: