



Fan



Before dust suppression



During dust suppression



Sheeting

DUST MANAGEMENT SOLUTIONS

Within the confined spaces of underground or tunnel environments, the creation of dust during engineering works causes problems with site productivity, potential risk to the health of staff, and operational hazards for the Client following completion of the works. Airborne dust may contain crystalline silica which can lead to the development of silicosis, fibrosis or lung cancer. In accordance with the requirements of the Control of Substances Hazardous to Health Regulations 2002 as amended (COSHH), control measures must be in place to reduce the impact of any dust created.

4-RAIL Services has experienced and technically qualified site technologists and consultants, offering a full range of dust management solutions and on-site monitoring incorporating :

- **Ventilation systems** Development and provision of temporary ventilation systems with the understanding of plant usage and site constraints e.g. additional fans and worksite barriers such as sheeting and/or tunnel plugs across tunnel openings, dust extraction.
- **Assessment** of dust raising activities with a view to the reduction of dust generated.
- **Site controls** Development and documentation of site controls e.g. influencing operator behaviour, dust suppression, sheeting arrangements, monitoring strategies.
- **Dust suppression** using a nebuliser system creating a fine mist of water, temporarily installed along the length of the worksite(s) in advance of work commencing.
- **Site management** Install, maintain and remove agreed ventilation systems and site controls, provision of tool box talks on dust control, assist in monitoring behaviour on site, monitoring of airborne dust fumes.
- **Monitoring for airborne dust and silica** during works and following completion of works prior to the start of normal operation (accredited for airborne dust monitoring, UKAS Test Lab.No.1931) . Personal monitoring for comparison with Workplace Exposure Limits (WELs).
- **Risk assessment** including interpretation of monitoring results by formally qualified staff .
- **Investigation** into dust minimisation solutions e.g. collection of magnetic dust particles using magnetic swarf collectors.

To discuss your particular requirements regarding these or other complementary services, contact us by emailing enquiries@4-rail.com or call us on 020 8955 1700

4-RAIL Services Limited is a recognised and leading
UK Environmental and Materials Consultancy

Unit 11 Ironbridge Close, Great Central Way, London NW10 0UF
Telephone: 020 8955 1700 Facsimile: 020 8830 1003
www.4-rail.com

