



THE NWH GROUP

Waste Transfer Station, Factory Road

Dust Management Plan

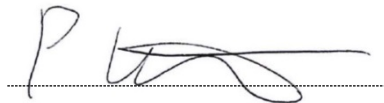
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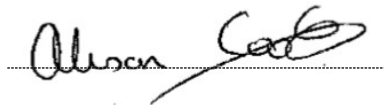
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1 DUST MANAGEMENT PLAN

1.1 Introduction

1.1.1 NWH Group proposes to operate a waste transfer station (WTS) at Factory Road, Gateshead. This dust management plan (DMP) outlines the dust management mitigation and controls for the operation of the WTS.

1.1.2 This DMP is part of the WTS's environmental permit documentation.

1.1.3 The purpose of this DMP is to provide detailed mitigation measures to ensure dust, mud and debris are controlled, removed and mitigated during operation of the waste transfer station. The plan is intended to cover the entire site and all dust-potential generating operations. The aim of the DMP is to ensure there are no adverse dust releases during operation of the WTS.

1.1.4 The DMP considers day-to-day operations and all foreseeable circumstances (e.g. adverse meteorological conditions) which may exacerbate dust conditions at the site.

1.1.5 The DMP has been prepared by qualified air quality professionals in Wardell Armstrong LLP, who are members of the Institute of Air Quality Management and Chartered Institute of Environmental Health. It is the responsibility of the NWH Group and the on-site WTS management team to ensure the WTS is operated in accordance with the DMP.

1.1.6 The DMP includes:

- Consideration and identification of all activities capable of generating dust at the site.
- Identification of sensitive receptors.
- Site- and activity-specific mitigation measures.
- Mitigation measures are sourced from the following documentation:
 - Environment Agency – Control and Monitor Emissions for your Environmental Permit
 - Institute of Air Quality Management, 2014. Guidance on the Assessment of Dust from Demolition and Construction.
 - In-house knowledge from registered members of the Institute of Air Quality Management who have extensive experience of preparing DMPs.

1.2 Site Description and Proposals

- 1.2.1 The WTS is located at Factory Road, Blaydon in an industrial estate. The site is bound to the north by a scrap yard, to the east by Factory Road and a metal sorting yard, to the south by industrial premises and to the west by the River Tyne.
- 1.2.2 The site is currently hard standing with an existing building present. The existing building would be retained, and a second building constructed in the north of the site would house the general waste processing area. The site plan is outlined in Plate 1.

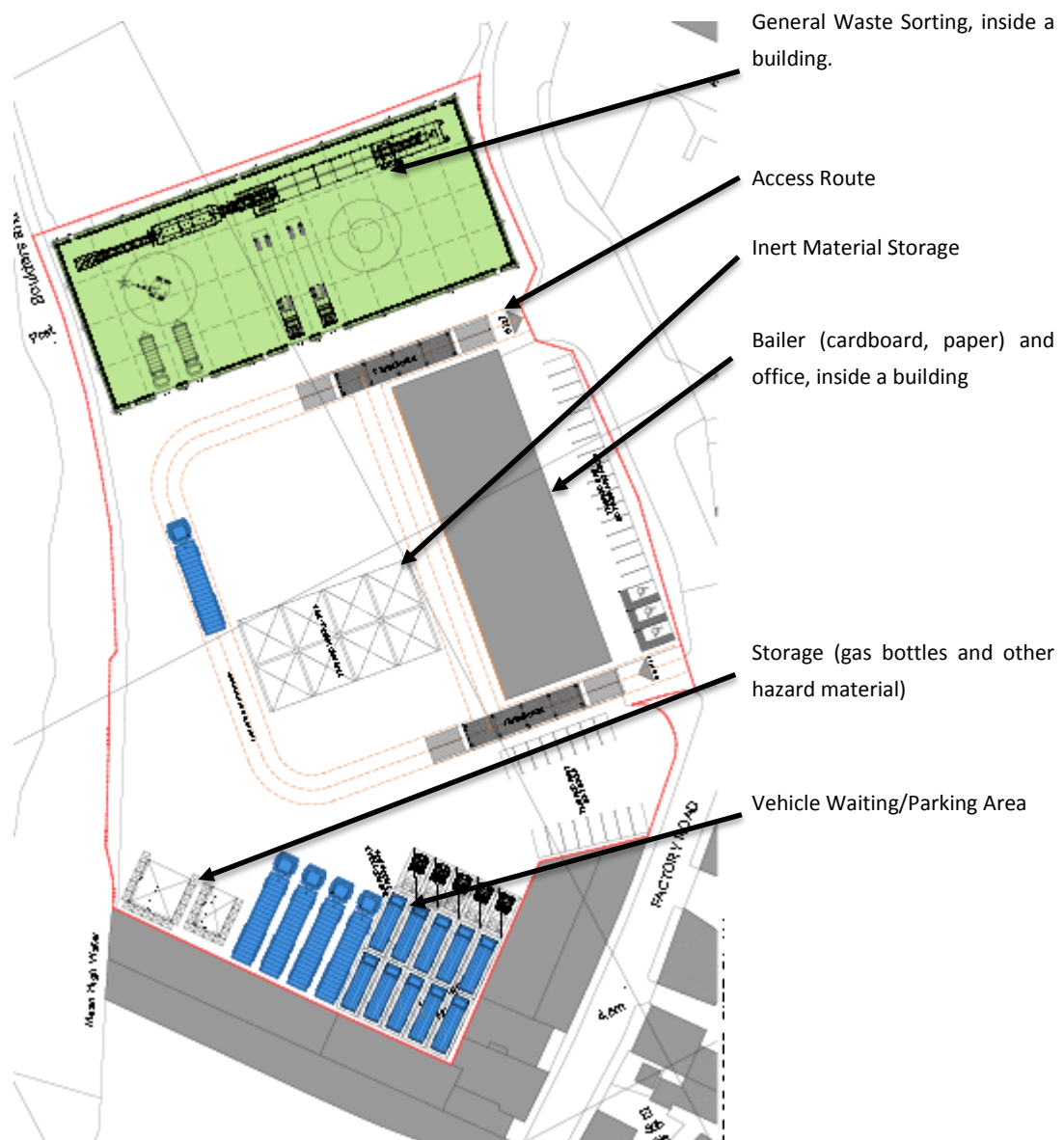


Plate 1: WTS Site Plan and Potential Dust Sources

2 POTENTIALLY SENSITIVE RECEPTORS

- 2.1.1 The area surrounding the WTS is commercial and industrial in nature. Almost all sensitive receptors surrounding the WTS would not be affected, however commercial office and a car sale premises are present, which are considered to be low sensitivity receptors.
- 2.1.2 Further afield, the nearest highly sensitive receptors (residential dwellings) are located up to 500m from the WTS, to the south west (i.e. upwind). Commercial offices are present to the north west of the WTS, on the opposite bank of the River Tyne. Retail units are present to the south west, however these are located up to 370m from the WTS are therefore not considered to be sensitive to dust deposition.
- 2.1.3 The residential dwellings are included for completeness. Dust entrained in the atmosphere will often deposit within 100m of the source. The IAQM guidance documents recognises dust can deposit up to 350m (specified in Construction Guidance) and 400m (specified in the Quarry Guidance). By 500m, it is expected any airborne dust will have dispersed and deposited before arriving at the sensitive receptor.

Receptor	Type of receptor	Approximate distance from facility
Blaydon Communications Ltd	Commercial (Office)	25m
Smiths of Swalwall	Car Sales Premise	14m
Commercial Offices at Goldcrest Way	Commercial (Offices)	260m
Existing Residential Properties at Shibdon Road	Residential Dwellings	517m

3 POTENTIAL DUST SOURCES

- 3.1.1 The WTS will handle general waste and inert material. These include; general waste, hardcore (brick, concrete, stones), mixed wood and greenery, plasterboard and gypsum product, scrap metal, soils and UPVC.
- 3.1.2 Storage durations are short. General waste would be removed within four days and the inert materials within 14 days.
- 3.1.3 Emissions to air may arise from:
- Vehicle movements – movement of inbound and outbound trucks. Movement of mobile plant in and around the site;
 - Loading and unloading activities;
 - Storage and stockpiles;

- Material handling – this may include unloading and loading but also day-to-day activities, such as handling from the mobile plant (2* wheeled shovels and 2* tracked excavators); and
- Waste sorting and stockpiling – a trommel screen and waste sorting office may give rise to dust emissions.

4 DUST MITIGATION MEASURES

4.1 Introduction

4.1.1 Due to the site location in relation to sensitive receptors and the prevailing wind patterns, it is considered that dust from the WTS has a low risk of causing adverse effects or complaint. The prevailing wind is from the westerly direction.

4.2 Site Management

4.2.1 The WTS manager (or an appointed employee) shall carry out as minimum one daily visual inspection of the working areas of the site and outside the entrance at Factory Road. The visual inspection shall consider, as a minimum, the following:

- Current dust generating activities. Upon identifying dust generation, details shall be relayed to on-site management and additional mitigation will be employed as necessary;
- Access route to ensure mud and debris is not being tracked out of the site onto the public highway, and Factory Road outside of the site itself;
- Ensure employees are carrying out the actions outlined in this DMP; and
- Details of daily activities, schedules shall also be monitored.

4.2.2 The results of the visual inspection shall be recorded in an Environmental Logbook which will be kept on site at all times. The logbook will be made available to the Environment Agency (or other regulatory body) upon request. The Logbook can be adapted for all visual inspections required and a specific 'dust inspection sheet' will be completed and included.

4.2.3 Information which should be recorded In the Logbook includes quality assurance details (date, time, signature of completion and inspector), meteorological conditions and the results of the visual check & actions taken if necessary, and any information relating to dust management implemented that differs from day-to-day operation.

4.2.4 During operational hours, an awareness of meteorological conditions will be maintained. Prolonged dry periods and moderate to high winds can increase dust

generation which may then become airborne and carried on the prevailing winds and dust management will be adjusted to suit the prevailing conditions.

- 4.2.5 Contact details for emergency third party contractors (e.g. dust sweepers, water bowzers) will be set out in the Logbook.
- 4.2.6 In the event of equipment failure that is vital to the dust suppression, replacement equipment will be sourced promptly, and maintained on site until such time that the equipment is repaired or replaced.

4.3 Inert Material Storage

- 4.3.1 The inert materials would be stored in three sided bays in the centre of the site (labelled as Material Bays in Plate 1). Eight bays are to be provided.
- 4.3.2 All stockpiled materials shall be stored at heights not exceeding the bay wall heights. This is to ensure there is minimal wind whipping of the exposed surfaces.
- 4.3.3 Stockpiles shall be dampened periodically to ensure the risk of dust generation and transportation from the materials bays is low.

4.4 Water Suppression

- 4.4.1 A continuous water supply will be maintained for dust suppression.
- 4.4.2 A water bowser shall be maintained on-site at all times and used, as and when necessary, to damp down stockpiles, haul routes, access route and processing areas.
- 4.4.3 Dampening activities may be required during unloading and movement to storage activities. The visual inspection shall inform when and whether these dampening activities are required.
- 4.4.4 Stockpiles will be dampened as and when necessary to reduce dust generation and may include dampening the stockpile itself. Due to the low risk identified and primarily most stockpiles being stored within buildings, a hose fitted on the bowser is considered to be sufficient.
- 4.4.5 Continuous water suppression across the site is not deemed to be necessary due to the low risk identified. Suppression should be used daily and as and when dust is visually seen in the airflow.

4.5 Road Surfaces and Cleanliness

- 4.5.1 The concrete surfaces shall be maintained and kept in good repair.

4.5.2 The access route shall be kept in a clean state and deposits of mud and dust shall be removed. Factory Road shall also be inspected daily, and any visible deposits shall be removed as necessary. The route of Factory Road as it bounds the site shall be inspected and cleaned as necessary.

4.6 General Mitigation and Maintenance

4.6.1 The following general measures shall be implemented at the site:

- Laden vehicles will be sheeted prior to entering and leaving the site.
- Minimise drop heights from loading/unloading activities. This applies to inbound/outbound vehicles and WTS mobile plant.
- General waste will be stored inside the building.
- Plant, equipment and seals (seals being buildings and equipment) will be checked regularly to ensure they are in full working order. Defective equipment which may give rise to fugitive emissions will be repaired or replaced as soon as possible.
- Plant and machinery shall not be left running unnecessarily.
- Dry sweeping of large areas will be avoided.

4.7 Complaints

4.7.1 In the event that any complaints are received, details of the complaint will be recorded in the Environmental Logbook and potential sources or occurrences on site will be investigated. Records of all complaints and remedial action taken shall be recorded in the Logbook.

4.7.2 The results of the complaint investigation and the measures taken to resolve the complaint will be made available to the Regulator upon request.

4.7.3 Additional mitigation will be employed as and when necessary to resolve the complaint(s).

4.7.4 Any complaints received will be recorded and investigated in accordance with the company's ISO 14001 Environmental Management System (EMS).

4.8 Distribution & Training

4.8.1 A physical copy of the DMP will be kept on site at all times and made available to employees. A digital copy will also be held at the head office. The DMP shall be made available to the Regulator on request.

4.8.2 The site manager will ensure each employee and subcontractor at and/or arriving to the site are familiar with the control measures and procedures outlined in this plan and are aware of their individual role in reducing dust emissions. Personal protective equipment shall be provided as necessary for employees and visitors.

4.8.3 Upon arrival at the site and/or beginning of employment the employee will be trained and familiarised to carry out the mitigation actions required of their role. The training will make the employee aware of the wider dust management controls active at the site. Suitable training may include a site-specific toolbox talk and annual refresher sessions.

4.9 Review and Responsibility

4.9.1 The DMP will be reviewed by the site manager annually. New versions of this DMP will be issued as and when necessary with mitigation and/or operational changes outlined. The version history shall be updated each time.

4.9.2 It is the responsibility of operator and the site manager to ensure the DMP is enforced and that all employees are suitably trained. Failure to do so could result in adverse environmental conditions and enforcement by the Environment Agency.

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