

Construction, Demolition & Environmental Management Plan

For

**Hornby St., Greater
Manchester, Heywood,
OL10 1AA -**

Construction of 13 new net zero new build homes.

CONTENTS

Page

1.	Considerate Constructors Scheme	3
2.	Construction Site Impacts	3
3.	Phasing and Sequence of Works	4 - 6
4.	General Site Management	6
5.	Resource Management	8 - 9
6.	Transport Management	9 - 12
7.	Water Management	12 - 13
8.	Material Procurement, Storage and Handling	14 -
9.	Waste Minimisation and Management	15 - 18
10.	Control of Emissions to Air	19 – 20+
11.	Noise and Vibration	20 - 23
12.	Pollution Incident Control Procedure	24 - 26
13.	Neighbors and Community Liaison and Management of Complaints	27
14.	Environmental Reviews	28

1. CONSIDERATE CONSTRUCTORS SCHEME

Hornby St will not be registered with the Considerate Constructors Scheme, but R&M and all sub-contractors will be required to comply with the Scheme. The Code commits those contractors in the Scheme to be considerate and good neighbors, as well as clean, respectful, safe, environmentally conscious, responsible, and accountable.

2. CONSTRUCTION SITE IMPACTS

A sustainable methodology will be adopted for the scheme and include an assessment of construction site management activities which will recognize and encourage construction processes to always consider the possible impact of such construction processes on the environment. R&M will demonstrate that there is a commitment to monitor, sort and recycle construction waste on site, and demonstrate that the following items are being achieved:

- ❖ Monitoring, reporting, and setting targets for water consumption arising from site activities.
- ❖ Adoption of best practice policies in respect to air (dust) pollution.
- ❖ Adoption of best practice policies in respect to water (ground and surface) pollution; and
- ❖ Sourcing 80% of the timber for formwork, site hoardings and other temporary site timber uses from sustainably managed (and legal) sources.

3. PHASING AND SEQUENCE OF WORKS

Construction works will be undertaken over 42 weeks.

- ❖ The construction phase will generally adhere to the following sequence of activities:
- ❖ Secure site boundaries
- ❖ Early drainage connection works
- ❖ Reduced level dig
- ❖ Foundations
- ❖ Construction of the substructures and superstructures

- ❖ External frame/ facade work to new buildings including external windows and doors.
- ❖ New Roof timber trusses and tile coverings.
- ❖ Internal plaster board and plastering
- ❖ 1st and 2nd fix M&E works
- ❖ Kitchen and bathrooms installed.
- ❖ New flooring internally
- ❖ New painting to walls and ceilings
- ❖ External brick walls and fences to form boundaries and private spaces
- ❖ Hard and soft landscaping works including the access and parking areas.

Key Responsibilities

To ensure that environmental standards are maintained, every person working on the site must be aware of their responsibilities. R&M will have overall responsibility for implementation of the CEMP.

Person/Organization Responsibility: R&M Property Group Ltd

- ❖ Initial erection/completion of the temporary hoardings/fencing around the site.
- ❖ Ensuring that the requirements of this CEMP are always adhered to.
- ❖ Ensuring that all site staff and subcontractor(s) undertake their activities in accordance with the site environmental policy, best practice and comply with the requirements of the CEMP.
- ❖ Ensuring that any monitoring required is being undertaken.
- ❖ Ensuring that regular liaison is undertaken with the neighboring landowners, residents, and occupier.
- ❖ Ensuring that unacceptable levels of environmental pollution including fuel spillages, noise, dust, or vibration do not arise from their activities on the site. This includes ensuring that:

- statutory environmental requirements are met.
 - environmental best practicable means (BPM) and controls are employed.
 - relevant procedures are followed.
 - resources (personnel and financial) are available to meet the environmental Management requirements.
 - corrective actions are implemented; and
 - records and other relevant documentation are maintained.
- ❖ Preparation and implementation of the waste minimization, recycling, and disposal plan.
 - ❖ Co-coordinator (Jon Scurr, Managing Director)
 - ❖ Co-coordinating deliveries and controlling vehicles accessing and leaving the site.
 - ❖ Environmental Monitoring Co-coordinator (Jon Scurr, Managing Director)
 - ❖ Monitoring dust, noise and vibration within the vicinity of the site and ensuring that any complaints regarding dust, noise or vibration are appropriately handled. (Jon Scurr, Managing Director)
 - ❖ Reporting incidents to R&M; (Jon Scurr, Managing Director)
 - ❖ Minimising waste; (Jon Scurr, Managing Director)
 - ❖ Ensuring that all staff adhere to statutory environmental requirements and the CEMP; (Jon Scurr, Managing Director)
 - ❖ Ensuring that resources (personnel and financial) are available to meet the environmental management requirements. (Jon Scurr, Managing Director)
 - ❖ Ensuring that corrective actions are implemented; (Jon Scurr, Managing Director)
 - ❖ Ensuring that records and other relevant documentation are maintained and reported to R&M including energy use and water consumption. (Jon Scurr, Managing Director)
 - ❖ Suitably protect adjacent trees to the site to avoid being hit by plant movements. Careful consideration to tree type required and no foundations to be dug as to avoid damage to roots.

Site personnel and all site staff are responsible for adhering to the requirements of the procedures outlined in this Construction Environmental Management Plan, ensuring that legislative requirements and good environmental practice are met within their job function; and as part of the site induction, all site staff must be made aware of the importance of maintaining good relations with the local community and neighbors and the sensitive location of the site as a whole.

Prior to any works commencing a full dilapidation survey and commentary of the surrounding highways and footways will be undertaken by R&M. This will include the approaches to the site along Hornby St.

4. GENERAL SITE MANAGEMENT

Introduction

This procedure addresses the general site management practices that will be employed throughout all stages of the works to ensure the safe and compliant operation of the site. This requires consideration of surrounding receptors in the general operation of a site.

Procedure

Site Working Hours

In accordance with the requirements of planning all construction works, and ancillary operations, including deliveries to and dispatch from the site will be restricted to the following periods:

- ❖ Between 08:00 and 17:00 Monday / Friday;
- ❖ Between 08:00 and 13:00 on Saturday; and
- ❖ Not at all on Sundays and public /bank holidays.

24 Hour Emergency contact number - **07725546053**

It is recognized that there may be exceptional circumstances where the restriction on hours of work cannot be adhered to. In these circumstances R&M will provide advance notification and justification for any extension to the working hours to the Planning Authority and notify neighbor's before works start outside normal hours.

Site Security

Jon Scurr (M.D) will arrange for site to be securely fenced prior to works commencing on site. Once the works commence, R&M will be responsible for the site hoarding/fencing, ensuring that appropriate and segregated vehicle and pedestrian access are provided and manned during working hours. During working hours, the site access will be kept closed except when.

vehicles are entering or leaving the site. Out of hours, the site access will be locked. The site entrance and exit will be clearly marked on site hoarding and fencing. CCTV monitoring will also be set up with a local company and monitored externally. The site will be fixed with motion sensors so any attempted access to the site will automatically trigger the alarm to the control station, is recorded and teams are sent to the site immediately.

Pedestrian Management and Safety

All operatives working on the site will ensure that the pedestrian walkways are always kept clear. R&M shall ensure that ramps and signs are provided, and that footpaths and paths are wide enough for wheelchair access. Pedestrians who are mobility impaired or who have sight or hearing difficulties will still be able to gain access to public footpaths and pavements adjacent to the site.

Road signs/names will be able to be clearly seen, or where a sign or name is obstructed, a replacement will be erected.

Although loading and unloading will be required over the footpath adjacent the site (Hornby St), over sailing will be always monitored by two banks people. Communication and eye contact always kept with one of the banks people to ensure safe loading and unloading with grab/machine driver.

Banks persons will be responsible for maintaining a clear unrestricted clean footpath. Pedestrians will be given right of way past any loading / unloading activities on Hornby St. All activates to cease as soon as a pedestrian approaches. **PEDESTRIANS ARE NOT TO BE STOPPED OR TRANSFERRED ONTO THE LIVE HIGHWAY OR OPPOSITE FOOTWAY UNDER ANY CIRCUMSTANCES.** All involved to be made aware that not all disabilities are obvious, and every person needs to be carefully and professionally approached. Banks people and drivers to be inducted in RAMS on this procedure.

Site Facilities

In line with the requirements of the Considerate Constructors Scheme, a high level of site welfare facilities will be provided and maintained, and breaks will not be taken in view of the public. Toilets will be screened within the cabin facility, and the site will be cleaned on a regular basis, especially around canteens and toilets.

The compound and facilities will be positioned to the rear of the site in the proposed car parking area and accessed via the main access off Hornby St. The site will be surrounded by timber hoarding with timber posts and painted externally R&M brand colors to make aesthetically pleasing for residents. Care will be taken to maintain the hoarding in good condition, to prevent unauthorized persons entering the site. The contract director will review daily on his visits. Hornby St storage area will be surrounded by Heras type fences with dust protection sheets to make aesthetically more pleasurable for residents.

Vehicle Parking.

A limited amount of on-site parking will be available. Alternative parking will be on the surrounding highways. However, Hornby St. parking will be avoided to keep the flow of traffic to the optimum.

Site Floodlighting

Floodlighting in areas adjacent to sensitive receptors, particularly residential properties, will generally be limited to the working hours identified. Where light glare may cause a nuisance, light shielding will be considered. Site lighting will be kept to a minimum, whenever possible, considering the needs for site health and safety and security. No temporary lighting planned on this project that would affect neighboring trees. Working hours daytime only. No nighttime works planned. Internal task lighting will be used for activities subject to specific RAMS.

Staff Training

As part of the induction process for all staff working on-site, R&M will provide Toolbox Talks to all contractors on environmental topics to be agreed relevant at the time. These will ensure all staff are aware of the environmental issues on the Development e.g. minimise waste generation, water, and energy consumption; maximise recycling; avoid pollution incidents, control of dust, etc.

5. RESOURCE MANAGEMENT

Introduction

This procedure relates to the minimisation of energy and water use and is closely related to the requirements of the Code for Sustainable credit criteria. This procedure will be adhered to throughout all phases of the development.

Procedure

For all phases of the construction works monthly water usage figures will be recorded and displayed on site, for example a graph showing monthly meter readings against an appropriate target. Monthly water consumption targets will be set by R&M using the Department of Trade and Industry's Environmental Key Performance Indicator benchmarks or other suitable benchmarks.

More generally, the following measures will be employed in relation to all energy and water consumption during the construction works:

- ❖ Low energy lighting with fluorescent bulbs will be used wherever possible.
- ❖ Where timers are fitted to the heater circuits, they will be set to turn off at 17:30hrs and come back on at 07:00hrs, except for the drying room where the heaters will be set to a lower setting when not in use;
- ❖ External flood lighting will be fitted with PIR (passive infra-red) movement detectors for night security.
- ❖ Plant will be kept maintained and switched off when not in use
- ❖ Fuel used by subcontractors will be recorded on a spreadsheet from delivery ticket.
- ❖ Energy and water sources will be metered where possible.
- ❖ Thermostats will be fitted to heaters within the site accommodation and welfare facilities.
- ❖ Appliances will be fitted with timers or energy saving settings wherever possible and will be switched off when not in use.
- ❖ Hosepipes will be turned off when not in use.

6. TRANSPORT MANAGEMENT

Introduction

This procedure applies to the management of vehicles accessing and exiting the site during the construction works and vehicle circulation within the site. The Site Manager/Director appointed by R&M will be responsible for ensuring that drivers adhere to this procedure, through implementation of a Traffic Management Plan. Multiple TM plans will be required for different durations of the project and logistics. These will be added to the CPP as detailed and used. The safety of residents and operatives are of R&M highest concern on this matter.

Potential Impacts

The potential impacts because of construction traffic are:

- ❖ Congestion on the local road network resulting from vehicle routing and/or queuing to access the site.
- ❖ Pollution because of queuing vehicles.
- ❖ Soiling of the local road network through transfer of mud and debris from construction vehicles; and
- ❖ Pedestrian safety.

Relevant Legislation and Guidance

- ❖ The Highways Act, 1980.
- ❖ Environmental Protection Act, 1990; and
- ❖ Road Vehicles (Construction and Use) Regulations 1986, as amended.

Procedure

Construction vehicles will not wait on the highway footways to enter site. Provision will be made on site to allow construction traffic to pull up to the front of the project only always remaining on Hornby St highway to avoid contamination to wheels, preventing mud and stains to the local roads. A holding area off site will be agreed where traffic will be able to wait while they are directed to the appropriate unloading procedure as previously detailed. See extract below from strategy to load and deliver. A small power wash will be kept on site with water supply for an potential incident's where the road is spoiled in any way. But all effort made to always keep wagons on the highway and plant and machinery on the site to avoid

contaminating local highway.



Vehicles waiting to leave the holding area on Hornby St. leave the site will be required to always switch off their engines and park on the highway refraining from always mounting the public footpath. Banks people to enforce this rule to avoid disruption to the flagged path and causing hazards with trips etc.

Where possible, vehicle movement areas within the site will comprise hard standing to minimise the transfer of mud onto the highway. However, vehicles leaving the site will ensure that they are clean and, if necessary, pressure washing of the wheels and chassis will be carried.

out by banks person. **NO VEICHLES REVERSING OUT OF SIGHT WITH OR WITHOUT BANKSPERSON. ALL VEICHLES REVERED INTO POSITION VIA BANKSPERSON ONLY**

Road sweeping measures will be employed by R&M to ensure that local public highways are kept clean and free from debris.

During the construction phase vehicles will be removing inert waste from site. These will be sheeted waste tipper vehicles.

Stockpiled crushed material for re-use on site will be positioned away from the new construction area to reduce the amount of material handling.

During construction, material deliveries to the site will be carefully phased to suit the Construction Programme. R&M will coordinate all deliveries or collections to/ from the site by way of a live delivery schedule which is updated weekly in line with the three weeks look ahead programme meets. R&M will ensure that deliveries are programmed to avoid local traffic busy periods.

Rigid sized vehicles will be utilized for all bulk material deliveries given the width and vehicle parking constraints on Hornby St.

Given the nature of Hornby St, there is a need to ensure construction traffic is careful and have flashing lights with reversing beakers on when accessing or egressing from site to advance knowledge local car users and pedestrians on highways and footpaths.

Dedicated access gate for pedestrians and vehicles will be provided to ensure pedestrian safety during arrival or departure of construction vehicles.

All construction vehicles and plant will be parked to the rear of the site in a dedicated area for refueling purposes and security.

All vehicles will be regularly maintained in accordance with the manufacturer's specifications.

Documentation

Copies of vehicle maintenance records must be held on site in a designated file.

7. WATER MANAGEMENT

Potential Impacts

The potential impacts from construction activities to surface and ground waters are:

Reduced surface or ground water quality from the release of mobile contaminants during the construction of the development, particularly during excavations and the construction of foundations.

- ❖ Incorrect disposal of site effluent.
- ❖ Pollution of surface water through chemical, oil, and fuel spills.
- ❖ Introduction of other pollutants (e.g. excessive amounts of solid particles) into the surface water drainage system; and

Relevant Legislation and Guidance

- ❖ Environmental Protection Act 1990.
- ❖ Water Resources Act 1991.
- ❖ Water Industry Act 1991.
- ❖ Ground Water Regulations 1998.
- ❖ Anti-pollution Works 1999; and
- ❖ Environment Agency Pollution Prevention Guidelines – General Guidance to the
- ❖ Prevention of Water
- ❖ Pollution (PPG01).

Procedure

Site Drainage

R&M will hold a drainage plan on site which shows the location of all surface and foul water drains and will make relevant staff aware of the existing drainage network.

Under no circumstances will waste chemicals, fuels, silt, or sediments be discharged to the drainage system or groundwater.

In the event of a blockage, a specialist Trade Contractor will clear out the drains and the waste material disposed of accordingly.

Trade effluent, including dewatering effluent, from the site will not be discharged to surface or foul water drains without obtaining consent from the Environment Agency or United Utilities, respectively.

R&M are responsible for obtaining necessary consents and ensuring compliance with any conditions, for example, the quantity and quality of effluent.

Storage and Handling of Hazardous Materials

Hazardous substance stores (fuel and chemical stores) and areas at risk of spillage/ leakage of polluting materials will be bunded in accordance with current best practice. Bunded compounds will have an impervious base, which can hold at least 110% of the capacity of the tank or drum it contains to minimise risks of hazardous substances entering drainage system.

Labels will clearly indicate the contents of containers.

Delivery of fuel and oil will be always supervised, and checks will be made to ensure that the correct type and quantity of fuel is being delivered. All pipelines and fueling points will be protected from vandalism and un-authorized interference and will be turned off and locked when not in use.

Drip trays will be used when filling smaller containers from tanks or drums to avoid drips and spills from entering the ground or drainage system.

Works with concrete will be carefully controlled and concrete wagons will be washed out in a safe area.

Documentation

The following documents will be held on site:

Copies of discharge and trade effluent consents held in a designated file by R&M; and

Should a pollution incident occur, a record of the incident, together with the remedial action(s) taken, will be maintained in an environmental incident logbook by R&M.

8. MATERIAL PROCUREMENT, STORAGE AND HANDLING

Introduction

This procedure applies to the procurement of timber and materials used in demolition and construction, and the storage and handling of all materials, except for waste, which is addressed separately. All staff are responsible for complying with the requirements of the procedure.

Relevant Legislation and Guidance

- ❖ Environmental Protection Act 1990.
- ❖ Water Resources Act 1991.
- ❖ A Green Guide to Materials Specification 2002, Building Research Establishment; and

Procurement

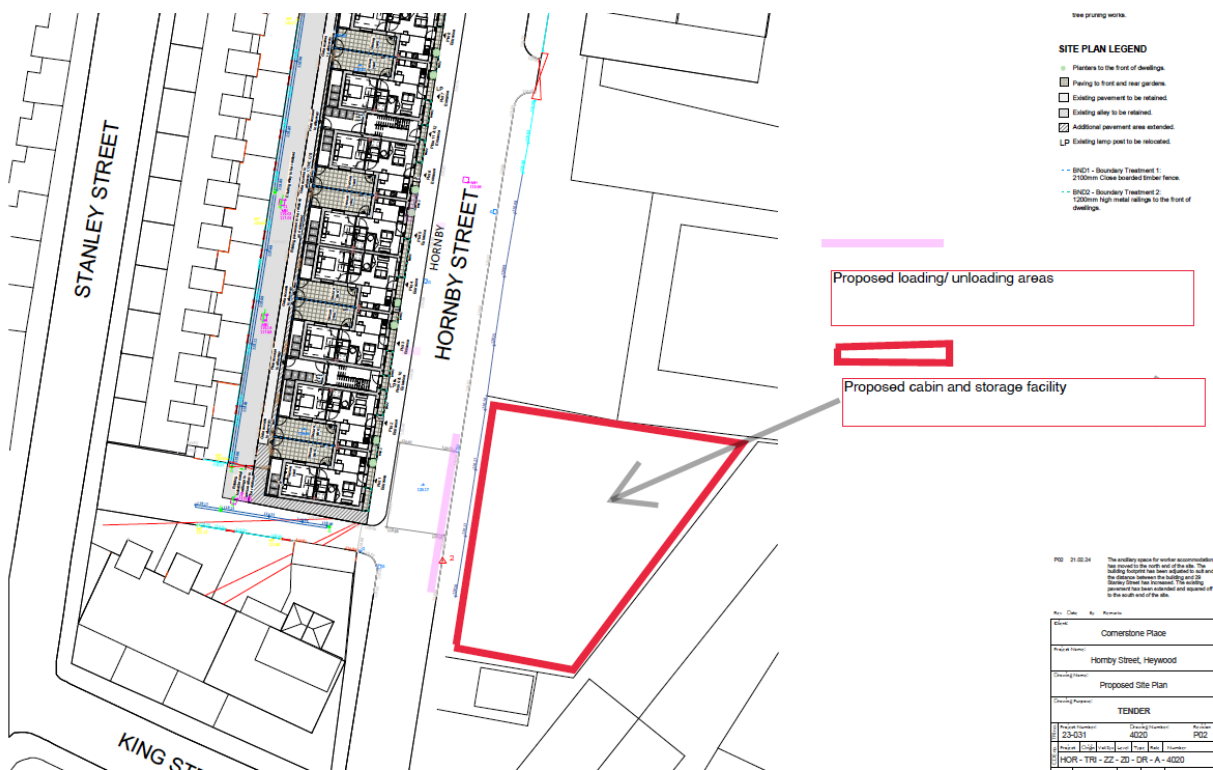
As a minimum all timber will be sourced in accordance with R&M timber policy. 75% of the timber and timber products used during the construction works should be from a temperate source independently certified by the Forest Stewardship Council (FSC), Programme for the Endorsement of Forestry Certification (PEFC), Canadian Standards Association (CSA), Sustainable Forestry Initiative (SFI) or the Malaysian Timber Certification Council (MTCC).

Other construction materials will be responsibly sourced wherever possible i.e., suppliers will hold a certified Environmental Management System for both the extraction of the raw materials e.g., stone, clay, aggregate etc. and the process stage. Materials will be sourced locally where possible. HYR approval of materials will be required prior to placement of orders.

Storage

All raw materials will be appropriately stored on site to minimise damage by vehicles, weather, or theft. The main location of the bulk storage will be to the rear of the site within the compound area.

Secure storage will be provided for items of high value, materials which are hazardous, or which are easily damaged. See extract below from proposed site storage plan.



Packaging will be retained on goods until the materials are required. Once removed, packaging materials will be stored and returned to the supplier for re- use/ recycling wherever possible.

Goods will be delivered on an “as needed/ just in time” basis to reduce stockpiling on site, damage from vehicles and other causes of wastage.

Documentation

Chain of custody certificates for sustainably sourced timber used during the works will be maintained in a designated file.

9. WASTE MINIMISATION AND MANAGEMENT

Introduction

This procedure applies to the minimisation, storage and disposal of all wastes generated during the construction works. It is also concerned with the establishment of procedures for

complying with statutory and good practice requirements for waste management. R&M are responsible for ensuring that the relevant documentation is completed and held on site. In addition, all staff are responsible for adhering to the requirements of the procedure.

Relevant Legislation and Guidance

- ❖ Environmental Protection Act 1990, Part II;
- ❖ Environmental Protection (Duty of Care) Regulations 1991;
- ❖ Hazardous Waste Regulations, 2005;
- ❖ Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations 1991; and
- ❖ Site Waste Management Plans – Guidance for Construction Contractors and Clients, Department of Trade and Industry; July 2004. The National Construction Best Practice Programme advocates ‘lean production’ methods and the minimisation of accidental on-site material wastage. The reuse of materials will take place wherever possible. Any remaining waste will be considered for recycling.
- ❖ To assist in achieving best practice, R&M attention is drawn to the following initiatives:

- ❖ Waste exchange - electronic waste board where contractors can advertise the availability of various types of waste available and companies can search for materials they need (www.wasteexchange.org);
- ❖ WRAP – The Waste Resources and Action Programme set up to establish markets for buying and selling recycled materials. Includes a guide to specifying sustainable aggregates www.wrap.org.uk.
- ❖ Best Practical Environmental Option - Assessment by BRE of methods of demolition, construction, and disposal of wastes to enable development of Best Practical Environmental Options for waste management; and
- ❖ Other Building Research Establishment (BRE) and CIRIA current initiatives relating to construction.

Procedure

All Site Works Waste Reduction

Over ordering of materials will be avoided, and deliveries of materials will be arranged for the appropriate stage of construction. Packaging from raw materials will only be removed immediately prior to use, to avoid damage to the materials and waste generation.

Initiatives to reduce waste streams will be incorporated where possible. These may include obtaining information on materials packaging from manufacturers and suppliers and avoiding purchase of over-packaged materials, liaison with the suppliers to enable packaging material to be sent back for reuse, use of off-cuts where possible and the recycling of off-cut material by the supplier e.g. plasterboard.

Recycling

Materials to be recycled will be sorted off-site by the relevant waste management contractor. The amount of waste reused, recycled or sent to landfill will be recorded by R&M and compared with the targets for waste re-use and recycling.

A detailed waste plan will be developed by R&M to identify methods of waste minimisation and recycling. At least five of the following materials will be recycled:

- ❖ Ceramics such as bricks, tiles, toilets, and sinks.
- ❖ Inert materials such as soils, clays, sand, gravel, and natural stone.
- ❖ Metals such as radiators, metal formwork, metal sinks, cables, and wires.

- ❖ Packaging such as paint pots, pallets, cardboard, bubble wrap, cable drums and wrapping bands.
- ❖ Plaster/cement such as plasterboard, render, plaster, cement, fibre cement sheets.
- ❖ Concrete such as kerb stones, paving slabs, rubble, and solid blocks.

Chemicals and oils.

Recycling at least five of the waste streams above will ensure maximum credits are achieved for those phases of the development registered under Eco 2005.

Waste Disposal

Waste will be segregated off-site into recyclable, inert, and non-hazardous or hazardous waste.

All waste removed from site (including recyclable waste) must be taken to a licensed or exempt waste disposal facility by a registered waste carrier. R&M will ensure that all waste carriers and waste disposal facilities are licensed. Non-hazardous waste will be covered by a Waste Transfer Note. The Transfer Note must include an accurate description of the type, quantity and containment of waste, the European Waste Catalogue Number, and details of the waste carrier. Sufficient information must be provided to ensure that the waste disposal operator is aware of any potential hazards of the substance. All documentation must be retained and be available for inspection.

R&M must inform the Environment Agency if they will be producing hazardous waste and obtain a Premises Code. A Hazardous Waste Consignment Note is required for disposal of hazardous waste and copies of the certification must be retained.

Waste Storage

All waste will be stored in an appropriate container to prevent escape of material and the site must be left in a clean and tidy condition at the end of each day. More frequent cleaning will be carried out around canteens and toilets.

Food waste must be collected regularly to avoid attracting vermin to the site. All roads, pavements, construction equipment, temporary structures, materials and machines will be kept clean and tidy at all times with litter and rubbish removed promptly. On completion of the works, each contractor must clear away, and move from the site, all plant, surplus materials, rubbish and temporary works.

When leaving the site, appropriate measures will be taken to prevent waste escaping onto the public highways, for example containers must be secured and open skips must be covered by

sheeting.

Documentation

The following documentation must be completed and held on site by R&M in a designated file:

- ❖ Details of targets for waste minimisation and recycling.
- ❖ Details regarding quantities of waste produced, reused, recycled and sent to landfill.
- ❖ Waste Transfer Notes (Controlled Waste);
- ❖ Hazardous Waste Consignment Notes; and
- ❖ Waste carrier's registration licenses.

10. CONTROL OF EMISSIONS TO AIR

Introduction

This procedure applies to the management of emissions to air during the development works. All staff are responsible for complying with the requirements of the procedure. Dust nuisance occurs more readily during prolonged dry weather and especially in strong winds. Consequently, good site management includes the ability to respond quickly to such conditions.

Good Practice advises that developments will seek to minimize pollution, including that to air, water, land, light, and noise. Guidance from the Building Research Establishment states that the most effective mitigation technique for dust control is to prevent dust from becoming airborne, since it is difficult to suppress after this stage. Best practice construction methods will be implemented to control the generation of dust during construction works. and indicates that use of Best Practicable Means to control dust will be sufficient, if properly implemented.

Potential Impacts

- ❖ Nuisance from dust deposition onto surfaces such as clothes, cars, or windows.
- ❖ Emissions from site plant and construction vehicles may adversely affect local air quality, and Impact on sensitive individuals from dust inhalation and air pollution.

Relevant Legislation and Guidance

- ❖ Environmental Protection Act 1990.
- ❖ Control of Substances Hazardous to Health Regulations 1994.
- ❖ Control of Pollution Act 1974.
- ❖ Clean Air Act 1993.
- ❖ The Health and Safety at Work Act 1974.
- ❖ The Air Quality (England) (Amendment) Regulations 2002; and
- ❖ BRE “Controlling particles, vapour and noise pollution from construction sites” 2003.

Procedures

Visual inspection of the site will be undertaken at regular intervals by R&M. If dust clouds are observed, action will be taken immediately, notwithstanding any ongoing dust monitoring measurements.

The following mitigation measures will be always implemented by all Contractors/ operatives to reduce dust and other emissions from site activities and minimise disruption or nuisance to neighboring occupiers:

- ❖ Spraying of water during the demolition phase as a dust suppression measure.
- ❖ Spraying of water at or on work faces, loading operations and access roads especially during dry conditions.
- ❖ Avoidance of dry sweeping during extended periods of dry weather.
- ❖ Use of designated vehicle routes and restriction of vehicle speeds on site to 5 mph;
- ❖ Restricting 'drop heights' during lorry loading.
- ❖ Avoidance of prolonged storage of debris on site or exposure to wind.
- ❖ Storage of materials as far away from the site boundary as possible.
- ❖ Screening, covering, or wetting loose material.

- ❖ Sheeting of buildings, chutes, skips and vehicles leaving the site.
- ❖ Turning off the engines of waiting vehicles.
- ❖ Use of properly maintained vehicles and plant
- ❖ The burning of waste materials on site is prohibited and will not be permitted, thus no smoke release; and
- ❖ Ensuring that all site workers are provided with appropriate Personal Protective Equipment (PPE).
- ❖ In addition, R&M will be responsible for:
 - Street sweeping.
 - Maintenance of hoarding and screening around the site; and
 - Liaison with neighbors.

All contractors / operatives must ensure that all plant and vehicles are in good repair and conform to the manufacturers or legislative standards. Wherever possible, plant must not be left running for long periods when not directly in use. Site traffic will be routed as far from residential and commercial properties as possible. Where appropriate, gas or electrically powered plant will be used instead of petrol or diesel.

Monitoring

Monitoring would be undertaken in response to nuisance complaints and would be the responsibility of the Environmental Monitoring Co-coordinator, nominated by R&M.

Activities likely to produce high dust levels, e.g. during earthmoving or ground works, with less frequent monitoring required during activities with a lower potential to generate dust.

Documentation

The following must be held on file:

- ❖ Dust monitoring record sheets.
- ❖ Details of corrective action taken if complaints are received or if Action Levels are exceeded; and
- ❖ Plant maintenance and defect reports.

Construction dust

HSE information sheet

Construction dust is not just a nuisance; it can seriously damage your health and some types can eventually even kill. Regularly breathing these dusts over a long time can therefore cause life-changing lung diseases.

This sheet tells employers what they need to know to prevent or adequately control construction dust risks. It also provides advice for safety representatives and workers.

Construction dust

This is a general term used to describe different dusts that you may find on a construction site. There are three main types:

- silica dust – created when working on silica-containing materials like concrete, mortar and sandstone (also known as respirable crystalline silica or RCS);
- wood dust – created when working on softwood, hardwood and wood-based products like MDF and plywood;
- lower toxicity dusts – created when working on materials containing very little or no silica. The most common include gypsum (eg in plasterboard), limestone, marble and dolomite.

Health risks

Anyone who breathes in these dusts should know the damage they can do to the lungs and airways. The main dust-related diseases affecting construction workers are:

- lung cancer;
- silicosis;
- chronic obstructive pulmonary disease (COPD);
- asthma.

Construction Information Sheet No 36 (Revision 2)



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Figure 1 Common tasks like cutting can create very high dust levels

However, most of these diseases take a long time to develop. Dust can build up in the lungs and harm them gradually over time. The effects are often not immediately obvious. Unfortunately, by the time it is noticed the total damage done may already be serious and life changing. It may mean permanent disability and early death.

Construction workers have a high risk of developing these diseases because many common construction tasks can create high dust levels. Over 500 construction workers are believed to die from exposure to silica dust every year. The amounts needed to cause this damage are not large. The largest amount of silica someone should be breathing in a day **after using the right controls** is shown below next to the penny.

Figure 2 Your maximum daily silica exposure is tiny when compared to a penny



The law

The Control of Substances Hazardous to Health Regulations 2002 (COSHH) cover activities which may expose workers to construction dust.

There are three key things you need to do:

- Assess (the risks)
- Control (the risks)
- Review (the controls)

Assess (the risks)

Assess the risks linked to the work and materials. Examples of high-risk tasks are listed in Table I. High dust levels are caused by one or more of the following:

- task – the more energy the work involves, the bigger the risk. High-energy tools like cut-off saws, grinders and grit blasters produce a lot of dust in a very short time;
- work area – the more enclosed a space, the more the dust will build up. However, do not assume that dust levels will be low when working outside with high-energy tools;
- time – the longer the work takes the more dust there will be;
- frequency – regularly doing the same work day after day increases the risks.

Control (the risks)

Use the following measures to control the risk. Examples of controls for common high-risk tasks are given in Table I.

Stop or reduce the dust

Before work starts, look at ways of stopping or reducing the amount of dust you might make. Use different materials, less powerful tools or other work methods. For example you could use:

- the right size of building materials so less cutting or preparation is needed;
- silica-free abrasives to reduce the risks when blasting;
- a less powerful tool – eg a block splitter instead of a cut-off saw;
- a different method of work altogether – eg a direct fastening system.

Control the dust

Even if you stop some dust this way, you may do other work that could still produce high dust levels. In these cases the most important action is to stop the dust getting into the air. There are two main ways of doing this:

- Water – water damps down dust clouds. However, it needs to be used correctly. This means enough water supplied at the right levels for the whole time that the work is being done. Just wetting the material beforehand does not work.



Figure 3 Water suppression on a cut-off saw

- On-tool extraction – removes dust as it is being produced. It is a type of local exhaust ventilation (LEV) system that fits directly onto the tool. This 'system' consists of several individual parts – the tool, capturing hood, extraction unit and tubing. Use an extraction unit to the correct specification (ie H (High) M (Medium) or L (Low) Class filter unit). Don't just use a general commercial vacuum.

Figure 4 Wall chasing using on-tool extraction.



Respiratory protective equipment (RPE)

Water or on-tool extraction may not always be appropriate, or they might not reduce exposure enough. Often respiratory protection (RPE) has to be provided as well. You will need to make sure that the RPE is:

- adequate for the amount and type of dust – RPE has an assigned protection factor (APF) which shows how much protection it gives the wearer. The general level for construction dust is an APF of 20. This means the wearer only breathes one twentieth of the amount of dust in the air;
- suitable for the work – disposable masks or half masks can become uncomfortable to wear for long periods. Powered RPE helps minimise this. Consider it when people are working for more than an hour without a break;
- compatible with other items of protective equipment;
- fits the user. Face fit testing is needed for tight-fitting masks;
- worn correctly. Anyone using tight-fitting masks also needs to be clean shaven.

Remember: RPE is the last line of protection. If you are just relying on RPE you need to be able to justify your reasons for this.

Other controls

Depending upon the work you are doing you may have to combine these measures with other controls. Think about:

- limiting the number of people near the work;
- rotating those doing the task;
- enclosing the work to stop dust escaping. Use sheeting or temporary screens;
- general mechanical ventilation to remove dusty air from the work area (eg in enclosed spaces such as indoors);
- selecting work clothes that do not keep hold of the dust.

You also need to make sure workers are doing the job in the right way and are using controls properly. Train workers:

- about dust risks and how this can harm their health;
- how to use the dust controls and check that they are working;
- how to maintain and clean equipment;
- how to use and look after RPE and other personal protective equipment (PPE);
- what to do if something goes wrong.

Review (the controls)

You may already have the right controls in place, but are they all working properly? Check the controls work by:

- having procedures to ensure that work is done in the right way;
- checking controls are effective. Does the work still seem dusty? You might need to carry out dust exposure monitoring;
- involving workers. They can help identify problems and find solutions;
- maintaining equipment:
 - follow instructions in maintenance manuals;
 - regularly look for signs of damage. Make repairs;
 - replace disposable masks in line with manufacturer's recommendations;
 - properly clean, store, and maintain non-disposable RPE. Change RPE filters as recommended by the supplier;
 - carry out a thorough examination and test of any on-tool extraction system at least every 14 months.
- supervising workers. Make sure they:
 - use the controls provided;
 - follow the correct work method;
 - attend any health surveillance where it is needed.

You may have to put a health surveillance programme in place. You may need advice for this from an occupational health professional.

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Table 1 Controls for common high-risk tasks

Task	Eliminate or limit the dust by:	Control the dust by using:
Cutting concrete kerbs, blocks and paving with a cut-off saw	■ Limiting the number of cuts during design/layout ■ Using lower energy equipment like block splitters ■ Getting material cut off site and delivered	■ Water suppression and ■ RPE* with an APF of 20
Chasing concrete and raking mortar	■ Limiting the need for chasing at the design/layout stage ■ Using a work method that limits/does not need chasing, like over-covering cables	■ On-tool extraction using an H or M Class extraction unit and ■ RPE* with an APF of 20 – consider powered RPE for longer duration work
Cutting roofing tiles with a cut-off saw	■ Hand cutting natural/fibre cement slates and other tiles where possible ■ Using ½ and 1 ½ tiles ■ Correct setting out/design ■ Minimising valleys/using dry valleys	■ Water suppression and ■ A dedicated cutting area with scaffold board protection and ■ RPE* with an APF of 20
Scabbling or grinding with hand-held tools	■ Specifying architectural finishes that do not need scabbling ■ Using (ultra) high-pressure water jetting ■ Using chemical retarders and pressure washing ■ Casting in proprietary joint formers, eg mesh formwork	■ Where possible use on-tool extraction using an H or M Class extraction unit and ■ RPE* with an APF of 20
Short-duration drilling totalling 15–30 minutes with hand-held rotary power tools	■ Limiting the number of holes during design/planning ■ Using direct fastening or screws	■ Where possible use equipment that stops dust getting into the air. The larger the holes the better this needs to be. Options range from: – drilling through a dust ‘collector’ or using cordless extraction attached to the drill (for smaller drill bits) or – on-tool extraction using an H or M Class extraction unit ■ Otherwise use RPE* with an APF of 20
Drilling holes with hand-held rotary power tools as a ‘main activity’	■ Limiting the number of holes during design/planning ■ Using direct fastening or screws	■ Where possible on-tool extraction using an H or M Class extraction unit and ■ RPE* with an APF of 20
Dry coring	■ Limiting the number of holes during design/planning	■ On-tool extraction using an H or M Class extraction unit ■ Longer duration work (ie over 15–30 minutes accumulated time over the day) will also need RPE.* Use an APF of 20
Wet coring	■ Limiting the number of holes during design/planning	■ Water suppression ■ Long periods of wet coring in enclosed spaces will also need RPE.* Use an APF of 20
Using a hand-held breaker in enclosed spaces with limited ventilation	■ Limiting the amount of breaking during design/planning stage ■ Bursting, crushing, cutting, sawing or other techniques ■ Remote controlled demolition ■ Hydrodemolition	■ On-tool extraction using an H or M Class extraction unit and ■ RPE* with an APF of 20

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Task		Eliminate or limit the dust by:	Control the dust by using:
Abrasives pressure blasting		■ Using a different method of work like (ultra) high-pressure water jetting ■ Using 'silica free' abrasive material	■ Wet or vacuum blasting and ■ RPE* will depend on silica content of building materials, blasting equipment and length of work: – In most instances use RPE with an APF of 40 – Use RPE with an APF of 20 for lower risk work (including the 'potman' nearby) ■ Shrouds or screens to contain the flying abrasive ■ Certain restricted/enclosed working places may also need general mechanical ventilation
APF	Common RPE types for construction dust		
10	■ FFP2 disposable mask or half mask with P2 filter		
20	■ FFP3 disposable mask or half mask with P3 filter - Or for longer duration work: ■ Powered RPE such as a TH2 powered hood/helmet		
40	■ Abrasive blasting helmet with constant flow		
Soft strip demolition		■ Carefully planning the work ■ Limiting the number of people that need to be in the work area ■ Screening off areas to prevent dust spreading	■ Use water suppression or on-tool extraction for those tasks where it is possible and ■ RPE* with an APF of 20 – consider powered RPE for longer duration work ■ Enclosed spaces may also need general mechanical ventilation to remove dusty air
Removing small rubble, dust and debris		■ Limiting waste materials during design/planning ■ Considering where waste material is created and how frequently it needs removing ■ Using the correct dust controls when making rubble/debris	■ Damping down and using a brush, shovel and bucket for minor/small 'one-off' amounts - Or for regular removal/site cleaning: ■ Water spray for damping down ■ Rake, shovel and bucket/wheelbarrow to remove larger pieces ■ Covered chutes and skips where needed ■ Vacuum attachments fitted to an H or M Class extraction unit ■ RPE* with an APF of 20 depending upon location, duration and type of work
Cutting wood with power tools		■ Using a less toxic wood¹ ■ Ordering pre-cut materials ■ Using dedicated cutting areas to minimise spread	■ On-tool extraction using an H or M Class extraction unit ■ Longer duration work (ie over 15–30 minutes accumulated time over the day) will also need RPE† suitable for the wood dust – particularly in enclosed spaces
Sanding wood with power tools		■ Using a less toxic wood¹ ■ Using 'pre-finished' materials	■ On-tool extraction using an H or M Class extraction unit and ■ RPE† suitable for the wood dust in most situations
Sanding plasterboard jointing		■ Using other finishes/systems	■ On-tool extraction using an H, M, or L Class extraction unit

† RPE for wood dust

* **Table 2** Common RPE types for construction dust

The risk from wood dust is specific to different types (species) of wood.¹ Knowing the species is important in establishing the right RPE to use. In general RPE with an APF of 20 is appropriate; particularly for higher residual dust levels, such as when sanding, and for all work with more toxic woods such as hardwoods, western red cedar and MDF. RPE with an APF of 10 is suitable for work with less residual dust and when the wood is lower risk (eg pine).

References

1 *Toxic woods* Woodworking Information Sheet
WIS30(rev1) HSE Books 2012
www.hse.gov.uk/pubns/wis30.htm

Further information

Further information on dust and other construction health risks can be found at
www.hse.gov.uk/construction/healthtopics/index.htm

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HAND-ARM VIBRATION EXPOSURE CALCULATOR

Company name / work area: _____

Employee ID and/or task name: _____

Tool or process name	Vibration magnitude m/s ²	Exposure points per hour	Time to reach EAV 2.5 m/s ² A (8)		Time to reach ELV 5 m/s ² A (8)		Exposure duration		Partial exposure m/s ² A (8)	Partial exposure points
			hours	minutes	hours	minutes	hours	minutes		
									Daily exposure m/s ² A (8)	Total exposure points

Exposure calculation by: _____
 Job role: _____

Calculation

11. NOISE AND VIBRATION

Introduction

This procedure applies to the management of noise and vibration during the construction works. All staff are responsible for complying with the requirements of the procedure. The Considerate Constructors Scheme states that the noise of plant, vehicles and radios will be kept down; noise including that from loading of skips will be suppressed using baffles or sound-deadening quilt and the use of radios will be moderated, with the volume maintained at a reasonable level.

Current ambient noise levels are generally dominated by traffic noise. Ambient vibration levels within and around the site are due primarily to nearby movements of vehicles and pedestrians but are low and insignificant.

Any potential piling operations will generate noise and an element of vibration which will be monitored to ensure acceptable levels are maintained.

Noise Action Levels Action Levels could be set for noise at the site boundary, but for the proposed works these will not be necessary. If Action Levels are deemed necessary, then they would be subject to agreement with the Noise Control Officer from the local Authority. The use of Best Practicable Means to control noise will be sufficient on the scheme, if properly implemented.

As a competent Principal Contractor R&M Property Group Ltd have been appointed to manage and oversee construction works to ensure that the installation of the foundation sub-structure and superstructure works are delivered to meet the ground conditions, health & safety requirements, quality standards, design details and specifications. All works are monitored and signed off by independent parties at varying strategic stages of the works, as and when they have been checked on site and referenced back to the technical design. Warranty provider, building control and client clerk of works among others will be engaged prior to commencement on site and regularly as works proceed. All works photos and specifications documents are uploaded to a portal daily for the works that happened on site each day. All parties have free access to the information and are provided documentation on completion in form of O&M and H&S files.

R&M document this process as part of the Construction Management Plan (Condition 7), to minimise detrimental effects to the neighbouring amenities, the amenities of the area in general, detriment to the natural environment through the risks of pollution and dangers to highway safety, during the construction phase in accordance with Policies DMI, T2, G7, G8 and G9 of the Core Strategy and the National Planning Policy Framework.

Vibration Action Levels

With regards to cosmetic damage to buildings, it is highly likely that occupants would complain, and alternative techniques be adopted long before vibration levels reached a level which would give rise to cosmetic damage.

Potential Impacts

- ❖ Disturbance to nearby residential properties from site activities.
- ❖ Effects of noise and vibration from heavy goods vehicles transporting materials to and from the site during construction.

Relevant Legislation and Guidance

- ❖ Environmental Protection Act 1990.
- ❖ Control of Pollution Act 1974 Part IV (Sections 60 and 61);
- ❖ BS 5228: Control of Noise on Construction and Open Sites, Parts 1 and 4;
- ❖ BS 7385: Part 2 Guide to Damage Levels from Ground Borne Vibration.
- ❖ BS: 6472: Guide to Evaluation of Human Exposure to Vibration in Buildings (1-80Hz); and
- ❖ Building Research Establishment (BRE) “Controlling particles, vapour and noise pollution from construction sites” 2003.

Procedure

Liaison must be carried out with the occupants of adjacent properties potentially most affected by noise or vibration from on-site activities prior to the commencement of works. Any piling and sheet piling operations are to be discussed and residents notified of the likely noise and vibration expected.

Site activities will be confined to the agreed working hours as detailed in the planning conditions, for any works requiring extending working hours advance notice would be provided to the Council of the hours to be worked and the activities to be undertaken.

No construction, delivery of materials or waiting in the proximity of Harwood Primary School shall take place for half an hour before the school day starts during the drop off period, and for half an hour before, and 15 minutes after, the school day ends.

All suppliers and delivery schedules to be made aware of the above and ensure all deliveries don't arrive in the times detailed.

Start up and close periods, of up to half an hour before and up to one hour after normal working hours, could be used providing there would be no operation of plant or machinery, or deliveries, giving rise to noise likely to disturb residents. Activities which could be undertaken within these periods include: the arrival and departure of workforce and site staff, maintenance and checking of plant and machinery, refueling, site inspections and meetings, safety checks prior to commencing work and site cleanup at the end of the day.

In this instance for startup activities a start time of 8.00am and a finish time of 17.00 Monday to Friday and a Saturday start time of 8.30am and finish time of 13.00.

The following mitigation measures will be always implemented by all contractors to minimise noise and vibration generated from site activities and disruption to neighboring occupiers:

Controlled lorry movements (including minimisation of reversing vehicles fitted with audible warnings);

- ❖ Use of modern, inherently quiet plant.
- ❖ Offsite prefabrication where appropriate.
- ❖ The use, where necessary and practicable, of enclosures/screens and/or acoustic covers around noisy and fixed plant.
- ❖ Use of whispering type generators and compressors or noise protection to static noise generators.
- ❖ Regular maintenance of plant; This will be provided by R&M.
- ❖ Access / egress route by one way system as detailed below and during the hours noted previous in this plan.



Monitoring

If R&M commit to action levels sample noise and vibration monitoring, this will be undertaken over 15-minute periods by the Environmental Monitoring Contractor nominated by R&M, at the locations agreed prior to each phase of construction works.

Where the results of the monitoring exercises indicate that the Action Levels have been exceeded, the following actions will be undertaken:

- ❖ The activity or activities causing the Action Levels to be exceeded will be identified through discussions with the contractor(s);
- ❖ Investigations will be made to determine whether the activities could be easily changed or other simple actions taken to substantially reduce noise or vibration levels;
- ❖ If simple and effective remedial measures are not identified, consideration will be given to the implementation of alternative techniques and/or additional mitigation measures; and
- ❖ In all cases where Action Levels are likely to be exceeded, neighborhood liaison will be carried out to the degree that is appropriate for the levels likely to be reached and their estimated duration.

Equipment

Noise monitors must conform to a minimum Type 2 integrating sound level meter that simultaneously records LAeq, LMAX, L90 and L10 noise levels. The vibration monitors must continuously sample the vibration levels and record the maximum vertical PPV (Peak Particle Velocity) every 15 minutes for sample vibration monitoring and every 1-minute period for continuous vibration monitoring. The vibration monitors will be capable of measuring 3-dimensional levels of vibration.

Documentation

The following must be held on file: Noise and vibration monitoring sheets.

12. POLLUTION INCIDENT CONTROL PROCEDURE

Introduction

This procedure applies to public safety, emergency, and other unplanned activities during the development works. All staff are responsible for complying with the requirements of the procedure.

Relevant Legislation and Guidance

- ❖ **Resources Act 1991.**
- ❖ **Water Industry Act 1991; and**
- ❖ **Environment Agency Pollution Prevention Guidance.**

Procedure

Incidents that must be reported to R&M are:

- ❖ Spills of chemicals, oils, fuels, unplanned or non-consented discharges.
- ❖ Release of fumes and gases; or
- ❖ Any incident that could lead to local authority or regulatory enforcement, public complaint, or media attention.

In the event of a spillage or other pollution incident, R&M shall be notified immediately, and immediate steps taken to prevent environmental pollution, for example:

- ❖ Protection of drains following a spillage of oil or other chemical.
- ❖ Use of spill kits following a spillage of oil or other chemical; and
- ❖ Turning off equipment or other source of fumes, noise, or dust.
- ❖ At least two spill kits will be kept on site which, as a minimum contain absorbent granules, sandbags and drain covers. Absorbent pads and booms will preferably be used instead of granules and sandbags where possible.

If it is considered that uncontrolled pollution may have resulted from an incident such as a release of fumes or gases or spillage, the following action will be taken:

- ❖ Ensure that it is safe to remain in the area.
- ❖ Locate and switch any isolation switches, valves or pumps if possible.
- ❖ Contact the following bodies where appropriate and follow their instructions:
 - Environment Agency Regional Office
 - Fire Brigade -Fire Station, and
 - Council Environmental Health Department
- ❖ Where possible undertake damage control measures to prevent dispersion of gases or pollution from entering drains or watercourses. For example, create containment sumps, pump liquid to temporary storage areas such as lined skips and block or clear drains as appropriate.

Documentation

A logbook of environmental incidents and remedial actions taken must be maintained on site and held by R&M.

13. NEIGHBOUR AND COMMUNITY LIAISON AND MANAGEMENT OF COMPLAINTS

Introduction

This procedure addresses neighbor and community liaison during the redevelopment works. R&M is responsible for ensuring compliance with the procedure. In addition, all staff are responsible for adhering to its requirements.

The Considerate Constructors Code of Construction Practice states the importance of the consideration of the needs of local people, businesses, and visitors.

Procedure

Liaison

Prior to commencement of the demolition and construction works, all neighboring occupiers.

will be contacted by the Site Manager, nominated by R&M, to explain the activities to be undertaken, the duration of the works and the working hours. The Site Manager will also be introduced as the main point of contact and a contact telephone number provided.

In accordance with the Considerate Constructors Scheme, a clean, presentable company sign board with relevant telephone number will be maintained. A respectable standard of dress code will be maintained and inappropriate behavior, such as “wolf whistling”, will be addressed in the site induction. R&M will ensure that standards are being adhered to.

The site reception/office will be clearly signed, and staff present in reception/office will be able to direct unexpected visitors to an appropriate member of staff. During the works, consultation and communication with neighbours will occur through newsletters and maintained notice boards. Neighbours will also be specifically informed about any abnormal work or road closures proposed.

All licenses issued by Council must be displayed prominently on hoardings, scaffolds, gantries, or fences. The timing of deliveries to adjacent buildings will be considered to avoid conflict with construction vehicles.

Complaints

In the event of a complaint from a neighbor or a member of the public in relation to any activity, it must be recorded by the Project Manager in a designated logbook, stating the nature of the complaint, the cause, the time and date and, where appropriate, the remedial action taken. All site workers shall immediately notify R&M Managing Director Jon Scurr or Site Manager will they receive any complaints.

Should complaints about noise, dust or vibration be received, the monitoring results at the time of the complaint will be reviewed.

The M.D, Site Manager or his representative will contact all complainants within 24 hours of receiving the complaint for further discussion and identification of a mutually acceptable resolution. Where possible, measures will be put in place to avoid recurrence of the complaint.

Documentation

All complaints will be recorded in a complaint logbook with details of remedial action taken.

Evaluation

The following documentation must be retained on site for inspection:

- ❖ Environmental incident logbook containing details of environmental incidents and corrective action taken.

- ❖ Copies of discharge consents and licenses.
- ❖ Waste transfer notes, hazardous waste consignment notes and waste carriers' registrations.
- ❖ Any noise and vibration monitoring record sheets with details of corrective actions taken where the action levels are exceeded.
- ❖ Any dust monitoring record sheets with details of corrective actions taken where the action levels are exceeded.
- ❖ Records of waste produced, reused, recycled and disposed of to landfill.
- ❖ Records of monthly energy usage and water usage as required.
- ❖ Records of distances travelled by each type of vehicle associated with the redevelopment works.
- ❖ Chain of custody certificates for timber.
- ❖ Plant maintenance and defect records; and Complaints logbook with details of the response made to complaints received.

I4 ENVIRONMENTAL REVIEWS

Environmental issues must be included as an item on the agenda at Progress Meetings, attended by Employers Agent, R&M, Subcontractors, relevant Trade Contractors, and other members of the project team where appropriate. Where relevant, the following will be discussed:

- ❖ Results of the monitoring.
- ❖ Complaints, including cause and remedial action.
- ❖ Neighborhood liaison.
- ❖ Communications with Council and other statutory bodies; and
- ❖ Incidents that have taken place.

Independent Environmental Audits

Regular independent environmental audits will be carried out to ensure that the requirements of this CEMP are being implemented. The frequency of the audits will be dependent upon the potential for the works being carried out to give rise to environmental impacts.