



Construction

Consultancy

Collaboration

Completion

40 Station Approach

Ruislip

HA4 6RZ

Noise Management Plan

Site Reference

40 Station Approach

Ruislip

HA4 6RZ

Client

Albion Housing Limited

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Some of the information presented within this report is based on third party information which is believed to be correct; no liability will be accepted for any discrepancies in accuracy, mistakes or omissions in such information.

Contents

- 1.0 Introduction
- 2.0 Noise Control – Health and Safety
- 3.0 Noise Control – Environmental
 - 3.1 Sound Barriers
 - 3.2 Limited Work Hours
 - 3.3 Operation Practices
 - 3.4 Maintenance
 - 3.5 Plant Specification
 - 3.6 Positioning of Plant and Equipment
- 4.0 Letter Drop to Local Residents
- 5.0 Complaints Procedure
- 6.0 Environmental Noise Monitoring Plan

1.0 Introduction

- 1.0.1 This protocol will form a section of the Construction Phase Health and Safety Plan and within the relevant section of the Environment Management Plan. The controls within this document are to be complied with by R. Thorpe Consultancy and all Trade Contractors during the construction works.

2.0 Noise Control – Health and Safety

- 2.0.1 Works are to comply with the Control of Noise at Work Regulations (2005) and shall be coordinated by the Site Manager. Refer to: Controlling noise at work - Guidance on the Noise at Work Regulations (2005).
- 2.0.2 Where possible noise levels at source are to be reduced by the careful selection of plant, with plant and equipment in a good state of repair, siting noise sources remote from the workforce, etc.
- 2.0.3 Where noise levels remain above 80 dB (A), noise assessments are to be undertaken and suitable hearing protection made available to those that request it.
- 2.0.4 Where noise levels are above 85 dB (A), establish hearing protection zones which are clearly signed.
- 2.0.5 Ear protection must be worn within established ear protection zones.
- 2.0.6 Ensure that noise does not cause a nuisance to persons in the vicinity of work being carried out.
- 2.0.7 Where noise assessment indicates a risk to employees' health, undertake health surveillance for employees (i.e. regular exposure above a daily or weekly personal noise exposure of 85dB (A)).

3.0 Noise Control – Environmental

3.0.1 Environmental Management Controls are to be adopted during the works to reduce potential noise and vibration disturbance from site generated activities. In establishing criteria, controls and working methods, account shall be taken of guidance BS 5228 'Noise control on construction and open sites'. Environmental Management controls are to include:

3.1 Sound Barriers

- 3.1.1 Acoustic fencing - A noise barrier shall be erected locally to noise producing machinery if required.
- 3.1.2 Welfare as sound barrier - Site buildings such as temporary offices and stores are to be grouped together to form a noise barrier separating site operations and nearby noise sensitive premises where practicable.
- 3.1.3 Earth noise bund - Temporary bunds (inert soil stockpiles) shall be built along the eastern and western boundaries of the site, preventing noise disturbance neighbouring residents.
- 3.1.4 Acoustic screens should be set up between the noise generating plant and any surrounding noise sensitive area. If possible, the line of sight between the top of machine and reception point at the nearest dwellings should be obscured. The material used for the screening should have a mass per unit of surface area in excess of 16 kg/m². To prevent some sound passing round the ends of short straight barriers, the length of a barrier used for screening should be at least five times greater than its height. Using well placed screening could reduce the noise levels by 10 – 15 dB.

3.2 Limited Work Hours

- 3.2.1 Use of normal working hours 08.00 to 18.00Hrs Monday to Friday and 08.00 to 13.00Hrs on Saturdays, with no works expected to occur on Sundays or bank holidays.
- 3.2.2 Where reasonably practicable, ensuring the use of quiet working methods, the use of the most suitable plant, reasonable hours of working for noisy operations, and economy and speed of operations.

3.3 Operational Practices

- 3.3.1 Machines in intermittent use should be shut down in the intervening periods between work or throttled down to a minimum.
- 3.3.2 Materials should be handled with care and whenever practicable not dropped. Plan deliveries in off peak periods where practicable.
- 3.3.3 Traffic management schemes to be implemented and maintained.
- 3.3.4 Ensure information on disruptive activities is adequately communicated through to interest groups.

3.4 Maintenance

- 3.4.1 Noise caused by resonance of body panels and cover plates of machinery could be reduced by stiffening with additional ribs or by increasing the damping effect with a surface coating of special resonance damping material.
- 3.4.2 Regular and effective maintenance of static and mobile plant by trained personnel to reduce noise from machinery Machines.

3.5 Plant Specification

- 3.5.1 If necessary, acoustic enclosures should be provided and/or acoustic screening for ancillary equipment such as generators.
- 3.5.2 Anti-vibration mountings shall be fitted where practicable to rotating and/or impacting equipment.
- 3.5.3 Preferred use of electrically powered plant as opposed to diesel or petrol driven.
- 3.5.4 All construction plant and equipment should comply with EU noise emission limits.

3.6 Positioning of Plant and Equipment

- 3.6.1 Locating noisy plant and equipment as far away from noise-sensitive receptors as reasonably practicable and, where possible, carry out loading and unloading in these areas.
- 3.6.2 Orientating plant that is known to emit noise strongly in one direction so that the noise is directed away from noise-sensitive receptors, where possible.

- 3.6.3 All ancillary plant such as generators, compressors and pumps should be positioned so as to cause minimum noise disturbance.
- 3.6.4 Lorries and dumpers shall be parked at a designated area, away from the residential properties.

4.0 Letter Drop to Local Residents

- 4.0.1 Before commencing any works RTC will distribute letters to all of the surrounding residence, introducing ourselves and briefly explaining what is happening and when. This will give the resident contact details of our project team and give them a chance to air any potential concerns also to give them contact details in the event of a noise complaint.

5.0 Complaints Procedure

- 5.0.1 In the event of a verbal or written complaint being received, the Principal Contractor will record in the complaints log as soon as the complaint is made, including the name and contact details of the complainant. Details of all communication with the complainant and any actions to resolve the complaint will be recorded in the same place.
- 5.0.2 Recorded complaints will be monitored by the Principal Contractor for the purpose of identifying any trends and to improve products and services.
- 5.0.3 The details of the individual or organisation making the complaint and details of their complaint will be held and used in accordance with the Data Protection Act 1998.
- 5.0.4 All complaints will be responded to including the progress updates of the complaint.
- 5.0.5 If complaints cannot be resolved using this complaint process, or the individual or organisation making the complaint is dissatisfied with the immediate response, they will be informed them where they can take further action (e.g., local authorities, the Equal Opportunity Commission, Health and Safety Executive, or Environmental Agency).

6.0 Environmental Noise Monitoring Plan

- 6.0.1 RTC will be responsible for undertaking continuous boundary noise monitoring. Daily noise monitoring within the work zones will be undertaken by RTC during noisy operations to check compliance with the Control of Noise at Work Regulations. This data will also be used to identify any increasing noise levels associated with the works. Additionally, noise monitoring will be undertaken on a continuous basis by the site manager, plant operators and site engineers to check plant is operating normally and to detect any significantly noisy activities.