

**Noise, Vibration Air Quality and Dust Management Plan for
Katherine Villa, Ferry Road, Earlsferry, KY9 1AJ
Planning reference: 23/03374/FULL
Prepared by McKenzie Strickland Associates, September 2023**

What are the consequences of activities that impact the residential amenity of the surrounding area from construction works of the proposed development?

All construction activities impacting the surrounding residential environment must be considered.

Primary concerns from construction activities are:

- **General Considerations:**
General considerations are measures to be considered when planning the site, prior to commencement of works or those which are not identified by the other categories.
- **Plant:**
Construction plant and equipment, in one form or another, will be used on a construction site throughout the duration of a project. They are a source of noise and vibration and can disturb local residents and users of other receptors and form the basis of a large proportion of complaints received by a local authority. It is important that the appropriate plant and equipment for the task is selected, and the correct procedures are followed to ensure the plant is used at its most effective and efficient.
- **Vehicle Activity:**
Material deliveries and removals are major noise sources that can have an impact on receptors both close to and at a distance away from a construction site.
- **Dust / Muck:**
Dust and muck are generally generated from cutting, mixing and excavating activities and are especially prevalent during extreme wet and dry conditions.
- **Vibration**
Vibration on a construction site is inevitable from activities such as drilling and cutting.

Who is aware of the impact of these activities?

All on-site staff, from site managers to delivery drivers, must be made aware of these issues and minimise their impact.

MSA will issue this document to the main contractor. The Main Contractor is to provide this information pertaining to the works as part of his inhouse procedures.

NOTE: Subcontractor carrying out works will provide their own Method statement for their works. This will be provided to main contractor to supplement the information outlined above.

Toolbox talks covering the above will be carried out on site prior to the works being carried out and to all new operatives being brought on site once the work has started. The details of all this method statements are to be brought to the attention of all personnel working on this site for the operations detailed. The implementation of this method statement is to be closely monitored at all times by the site supervisor.

What can be done to prevent the impact of these activities to the residential amenity of the surrounding area?

Mitigation measures appropriate to prevent nuisance from these activities have to be considered and must be routinely monitored and replaced where required.

- General Considerations:
 - Normal Working Hours
 - 8am to 6pm – Monday to Friday
 - 8am to 1pm - Saturday
 - At no time –, Sunday and or Public Holidays
 - Limit material and plant loading and unloading to normal working hours.
 - Prior to start of works on site, all site staff are to be briefed on their responsibilities minimise construction noise and vibration and the content of any planning consents, codes of construction or other legal agreements. The performance of the training should then be regularly reviewed and repeated throughout the construction programme as appropriate.
 - Display contact details of contractor and responsible site manager as well as working hours and other site information.
- Plant
 - Ensure that each item of plant and equipment complies with the noise limits quoted in the relevant European Commission Directive 2000/14/EC, United Kingdom Statutory Instrument (SI) 2001/1701.
 - Adhere to 'quiet hours' as agreed and/or adopted by the local authority.
 - Reduce loading / unloading heights for muck away and material movement to mitigate impact noise.
 - Follow manufacturer's guidance and measures to operate plant and equipment and use it in a manner which minimises noise.
 - Handle all material in a manner that minimises noise.
 - Use rubber linings in chutes, dumpers and hoppers to reduce impact noise.
 - Use all plant and equipment only for tasks for which it has been designed for.
 - Shut down all plant and equipment in intermittent use in the

intervening periods between works or throttle it down to a minimum.

- If possible, power all plant and equipment by mains electricity or other quieter technology rather than locally powered sources such as generators.
- Locate and orientate fixed or semi-static plant away from noise sensitive receptors.
- Vehicle Activity
 - Ensure all vehicle movements occur within normal hours or at agreed times, taking into account the primary function of sensitive receptors in the vicinity (i.e. avoiding school drop-off/pick-up periods).
 - Plan deliveries and vehicle movements so that vehicles are not waiting or queuing on the public highway. If waiting or queuing is unavoidable then engines should be turned off.
 - Where site space is limited and volume of vehicles attending site is high, seek vehicle holding bay(s) to use with 'Just in time' delivery management.
- Dust / Muck
 - Site is to be kept clean and tidy at all times.
 - Adjacent footway and road to be cleaned of dust and earth from construction activities at the end of each day.
 - Consideration of the wind direction should be made to prevent dust from cutting / excavation activities migrating onto neighbouring properties.
 - Dust sheets and barriers should be used where appropriate when partaking in dust / dirt generating activities.
- Vibration
 - Avoid drilling and loud plant equipment outside of normal working hours.

What will you do if the mitigation fails?

Consult with the parties involved to assess the mitigation failure and work towards a resolution.

Who will you contact?

- Main contractor and site staff, MSA

Site Impact Analysis



- Site Boundary
- High Risk
- Medium Risk
- Low Risk