



Eastland
Port

Noise & Vibration Management

62 Dunstan Road Aggregate Yard

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1 Introduction

This Specific Noise & Vibration Management Plan is required by condition of resource consent to address the potential noise and vibration from earthworks associated with the upgrade of the Dunstan Road Aggregate Yard and shall be read in conjunction with Construction Environmental Plan. This plan addresses the proposed control measures associated with the construction of the Dunstan Road Aggregate Yard Development.

2 Location of the Works

The project site is located at 62 Dunstan Rd, Matawhero; situated behind Fulton Hogan's aggregate storage yard and bounded by a mixture of agricultural farming and storage yards. The site is bordered by Fulton Hogan to the East, the Waipoa River stop bank to the West and private properties to the remaining boundaries.

3 Programme

The works detailed in this plan are programmed to commence in November 2019 and through to the late first quarter of 2020.

Working Hours:

Monday to Friday:	0700 - 2200
Check Saturday:	0700 - 2200
Sunday:	0700 - 2200
Public Holidays:	Nil

4 Description of Works and Construction Methodology

This Noise & Vibration Management Plan details the works associated with the development of the Dunstan Road Aggregate Yard.

The works are essentially stripping of topsoil, development of swales and sediment controls and the importation of approximately 15,000m³ of removed from Eastland Port.

Final surface will be permanently stabilised and have a capping layer of gravel.

5 Monitoring and Maintenance

This project has the potential to generate noise and vibration as a result of the following types of work:

- Excavation / Earthworks
- Stockpiling and sorting materials
- Transportation of material
- Materials placement and compaction



Roles and responsibilities for noise and vibration monitoring and reporting may require a technical expert.

The Environmental Manager will be responsible for monitoring and reporting on noise and vibration levels should they be required as part of these works.

5.1 Environmental risk assessment

Table 5-1 Environmental risk assessment, noise and vibration

	Type of Work			
	Excavation/ Earthwork	Stockpiling and sorting of materials	Transportation of material	Material placement & compaction
Noise and vibration risk	Low	Low	Low	Med

The overall noise risk for this project has been assessed as low based on the proximity to nearest residential property and existing site operations.

5.2 Performance Standards

The following table details noise limits as set within project resource consent measured at any dwelling:

Zone	Day 0600 – 2100 hrs dB		Night 2100 – 0600 hrs dB	
	L ₁₀	LA max	L ₁₀	LA max
Rural	55	75	45	70
Industrial and Port	55	75	45	70

Where the noise limits cannot be achieved, enhanced management will be required to mitigate noise effects and approval will be obtained from EPL's Environment Manager prior to the commencement of the type of work.

5.3 Control Measures

Noise control measures to be adopted on the project will largely be limited to using plant and equipment in good working order, limiting hours of operational hours to avoid sensitive times and minimising night works unless essential, and establishing a works programme that shortens the construction period to the extent practicable to limit noise impacts.

5.3.1 Administrative Controls

A key aspect of this construction noise and vibration management plan is stakeholder engagement. The site contact for the public for the duration of the works will be the project manager. There will be the following communication with the community regarding construction noise issues:



- There will always be a contact person available on site, and their contact details will be prominently displayed at the entrance to the site so that they are clearly visible to the public/EPL.
- Individual notification will be provided and meetings offered to all interested parties requiring further information or updates on the progress of the works.
- Neighbours will be informed of the proposed timing of specific works which may cause some concern amongst the local communities.

5.3.2 Engineering Controls

Summary of controls

Type of work	Noise Vibration and Risk	Control
Excavation/ Earthworks	Noise and Vibration	<ul style="list-style-type: none"> • Terrain acts as a sound barrier to the proposed works. • Daily plant inspection, maintenance and scheduled maintenance completed • Staff briefed on noise restrictions
Stockpiling and sorting of materials	Noise	<ul style="list-style-type: none"> • Reversing alarms to be monitored on plant to ensure compliance with noise criteria. Preference is use of squawkers over beepers. • Works taking place within operational area away from residential dwellings • Terrain acts as a sound barrier to the proposed works. • Daily plant inspection, maintenance and scheduled maintenance completed • Staff briefed on noise restrictions
Transportation of material	Noise	<ul style="list-style-type: none"> • Reversing alarms to be monitored on plant to ensure compliance with noise criteria. Preference is use of squawkers over beepers. • Terrain acts as a sound barrier to the proposed works. • Minimise number of truck movements and duration • Daily plant inspection, maintenance and scheduled maintenance completed



Type of work	Noise Vibration and Risk	Control
Material placement & compaction	Noise and Vibration	<ul style="list-style-type: none"> • Reversing alarms to be monitored on plant to ensure compliance with noise criteria. Preference is use of squawkers over beepers. • Terrain acts as a sound barrier to the proposed works. • Daily plant inspection, maintenance and scheduled maintenance completed • Staff briefed on noise restrictions

5.3.3 Ongoing Assessment

While a preliminary assessment has been performed as part of the risk assessment, for each significant type of work, noise will be assessed against compliance standards, which will identify any controls specific to the type of work to mitigate any areas of concern.

5.4 Monitoring and Reporting

Monitoring and reporting actions below have been assigned to the Environmental Manager.

5.4.1 Monitoring

Noise monitoring will be conducted as follows:

- When the works start to verify the sound levels assumed for each of the major items of equipment and to assess the effectiveness of noise control measures and implementation of this plan;
- At any point during the works when the methodology changes,
- If required, in response to construction noise related complaints.

Noise monitoring shall be conducted by the following trained staff in accordance with NZS 6801:2008 and NZS 6803:1999:

- To be advised

The monitoring will be conducted using a portable sound level meter kit. The devices calibration will be verified by an accredited laboratory annually and biannually for the sound level meter and microphone.

Vibration monitoring will be conducted as follows:

- Assessment of vibration will initially involve assessment by a suitably experienced person using unaided senses.

If during initial unaided senses assessment vibration is detected and further clarification of the level of vibration emitted is required, a secondary assessment of weighted vibration levels (Wb and Wd) shall be measured according to BS6841:1987. The average vibration shall be measured over a time period not less than 60 seconds and not longer than 30 minutes. The vibration shall be measured at any point where it is likely to affect the comfort or amenity of persons occupying an adjacent site.



5.4.2 Reporting

The following information will be provided to the EPL Project Manager, within the timeframes stated in Table 6-6 below.

Information reporting requirements

Information	Timeframe
Noise survey reports	Within one week of monitoring
Noise complaint initial report	Within twenty-four hours
Noise complaint closed	Within one week of closing complaint

5.5 Complaints

Complaints will be managed using the complaints process. During works, there will always be delegated person available to discuss noise issues with the EPL project manager and to take immediate action if directed. All complaints will be documented on the communications and complaints register to be held for the project.

GDC, as regulator, to be provided with quarterly reports on status of any complaints received.



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