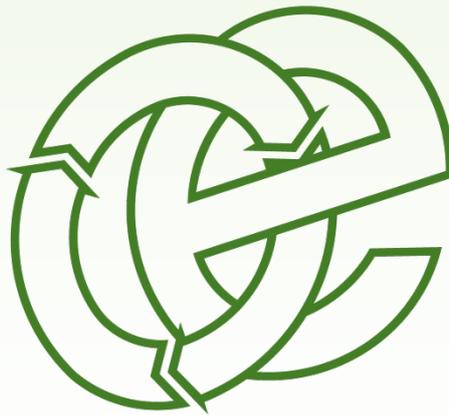


NOISE & VIBRATION MANAGEMENT PLAN

Tan Yard Brow, Gorton, Manchester, M18 8UJ

Cosmor Groundworks Ltd

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1 Noise Management Plan (NMP)

1.1 Introduction

1.1.1 This noise management plan outlines the methods by which the site operator will systematically assess and minimise the potential impacts of noise generated by the site. The noise management plan is a working document with the specific aim to ensure that:

- a) Noise impact is considered as part of routine inspections.
- b) Noise is primarily controlled at source by good operational practices and 'Best Available Techniques ('BAT'), including physical and management control measures.
- c) All appropriate measures are taken to prevent or, where that is not reasonably practical, to reduce noise emissions from the site.

1.1.2 The noise management plan addresses the impact of noise, and the control measures employed to mitigate the risk. These are supported through monitoring procedures to identify elevated levels and review complaints should they arise. The complaints management procedure is also addressed, which includes the management responsibilities.

1.2 Site Description & Context

1.2.1 The area surrounding the site is predominantly industrial/ commercial in nature, however, various residential developments are scattered around the existing site. These are summarised in the table overleaf.

Table 1 - Nearest Sensitive Receptors

NSR	Approx Distance from site boundary	Description
NSR 1	40m NNE	A 2-Storey dwelling off Tan Yard Brow
NSR 2	50M N	A 2-storey dwelling off Tan Yard Brow
NSR 3A	50m NWW	2-storey terrace dwellings at the end of Kirk St.
NSR 3B	80-105m NW	2-storey properties along Kirk St & Harrington St.
NSR 4A	60m S	2- storey terrace dwellings along Hyde Road (A57)
NSR 4B	100m S	2-storey dwellings down Gratix St & Willow Ave
NSR 5	115m E	3-story tall 'Holiday Inn Express'

1.2.2 At LT1, road traffic noise emissions from the A57 made up the majority of the acoustic climate with occasional vehicle movements along Sandheys Grove. Low frequency droning from commercial aircraft flying overhead was also clearly perceptible at times.

1.3 Hours of Operation

1.3.1 The site will be open during the following hours for the receipt, treatment and removal of waste / product:

Monday to Friday	07:00 – 18:00
Saturday	08:00 – 16:00
Sundays, Bank/Public holidays	Closed

1.3.2 The only activities on site which will be permitted outside of these hours are onsite maintenance works, emergency deliveries of waste/plant/machinery and general office use.

1.3.3 During times where the site is closed or not in operation, the site will be locked and secured to prevent unauthorised access.

1.4 Maintenance and Review of the NMP

1.4.1 The following sets out the review and responsibilities for the NMP:

- a) The Site Manager will be responsible for the NMP and ensuring people are trained.
- b) The NMP will be kept in the site office.
- c) The NMP will be reviewed annually, or sooner in the event of substantiated complaint related to noise.
- d) Training needs are defined in the site EMS. Training will be given to all relevant persons to make sure they are competent in completing noise and vibration survey forms, noise and vibration complaint report forms and the site diary to ensure sufficient monitoring of noise and vibration can be carried out and any problems addressed correctly. This will include training to all new staff and re-training via toolbox talks, as applicable.
- e) Records of complaints and associated investigations will be maintained by the Site Manager, or suitably trained staff member, if the site manager is not available.
- f) All employees and sub-contractors of Cosmor Groundworks Ltd involved with potentially noise operations will receive training in noise and vibration monitoring and complaint reporting. Training will be given to all relevant persons to make sure they are competent in completing noise and vibration survey forms, noise and vibration complaint report forms and the site diary to ensure sufficient monitoring of noise and vibration can be carried out and any problems addressed correctly.

1.5 Noise Sensitive Receptors

1.5.1 Shown in the following figure are the closest noise sensitive receptors (NSR)



2 Noise Sources & Processes

2.1 NIA Conclusion

- 2.1.1 The noise impact assessment has considered the residual baseline sound climate and the predicted noise emissions associated with the proposed bespoke permit operations at the Cosmor Groundworks site. The assessment has been undertaken in accordance with BS4142:2014+A1:2019, the Environment Agency's Method Implementation Document (2023), and relevant national policy and guidance.
- 2.1.2 An initial screening assessment indicated that 'significant adverse impact' would be expected at all NSRs should a screener and crusher be in open air near the centre of the site. As such, an indicative noise control scheme has been proposed from the outset.
- 2.1.3 The survey and modelling results demonstrate that screening operations are predicted to result in, at worst, a low likelihood of 'adverse impact' to 'adverse impact' at the most affected NSRs aligning with effects at or below 'Lowest Observed Adverse Effect Level' ('LOAEL'). It is stated that below a LOAEL (i.e., NOAEL), "noise can be heard, but does not cause any change in behaviour, attitude or other physiological response". In addition, noise at this level "can slightly affect the acoustic character of the area but not such that there is a change in the quality of life".
- 2.1.4 Waste transfer operations (no screener) are initially predicted to give rise to an 'adverse impact' at NSRs 1, 2 & 5. With the exception of NSR1, the worst-case noise impacts all NSRs are deemed a 'No Observed Adverse Effect Level' ('NOAEL') in line with the NPSE having considered all the relevant context.
- 2.1.5 The 'worst-case' noise impacts at NSR1 during waste transfer operations are thought to align with the threshold for a 'Lowest Observed Adverse Effect Level' ('LOAEL') in accordance with the NPSE.
- 2.1.6 It is stated in the NPSE that, "all reasonable steps should be taken to mitigate and minimise adverse effects on health and quality of life while also considering the guiding

principles of sustainable development. This does not mean that such adverse effects cannot occur.”

2.1.7 At this stage a significant noise control scheme has been indicatively recommended. Whilst the scheme may require further development; however, it is thought that with the correct equipment specification and management of noise, the proposals will avoid significant adverse effects at the nearby NSRs.

2.1.8 With the adoption of the below measures and strict adherence to the Noise Management Plan, the proposed development is not expected to give rise to significant adverse noise impacts at surrounding receptors. The proposals are consistent with the principles of sustainable development, are thought to meet the requirements of the Environmental Permitting Regulations and represent the application of Best Available Techniques.

2.2 Noise Sources

2.2.1 Shown in the table overleaf are calculated sound power levels of the external plant equipment and processes.

Description	1/1 Octave Frequency Band (Hz, L _w dB)								L _{WA} (dB)	On-Times
	63	125	250	500	1k	2k	4k	8k		
Screener ^[1]	99	94	103	99	98	90	83	77	102	100%
Excavator Operating/Loading ^[2]	101	92	94	94	93	92	87	83	98	50%
Excavator Loading Wagon ^[3]	96	90	90	90	89	87	83	79	94	20-min
Wagon Delivering Waste ^[4]	99	96	93	93	95	92	88	84	99	5-min
Wagon Reversing ^[5]	93	94	92	95	96	98	104	96	107	2no.

Notes:

[1] Process measured by NOVA Acoustics for a similar screener processing rough soils and slag (8383UE). NOVA Acoustics has been informed this would be appropriate for the site.

[2] Process measured by NOVA Acoustics on-site. For bespoke operations, this has been modelled loading the screener with a 50% on-time correction as stipulated by the site operators.

[3] Process measured by NOVA Acoustics during a site visit. According to the site operators this takes would only take up to 20-minutes but would occur several times a day.

[4] Process measured by NOVA Acoustics during a site visit. This process only takes 5-minutes but would occur several times a day.

[5] Measured by NOVA Acoustics during a site visit. Up to 2no. reversing events can occur per 1-hour according to the site operators.

Table 7 – External Source Sound Power Levels (Modelling Input)

2.3 Proposed on site screening

2.3.1 As part of the bespoke permit proposals, 4m tall concrete bay walls are to be erected along the site boundary. These have however, been modified based on adverse reflections they cause (this is shown in the next figure). These have been modelled with the appropriate absorption and scattering spectrums.

2.3.2 The northern boundary steel wall should be erected up to a height of 7m in efforts to control external excavator noise emissions.

2.3.3 It has been found that the screener must be housed within a canopy structure to minimise significant adverse impacts (a noise model is available for the EA within the submitted files). Shown overleaf is the indicative noise control scheme at this stage.

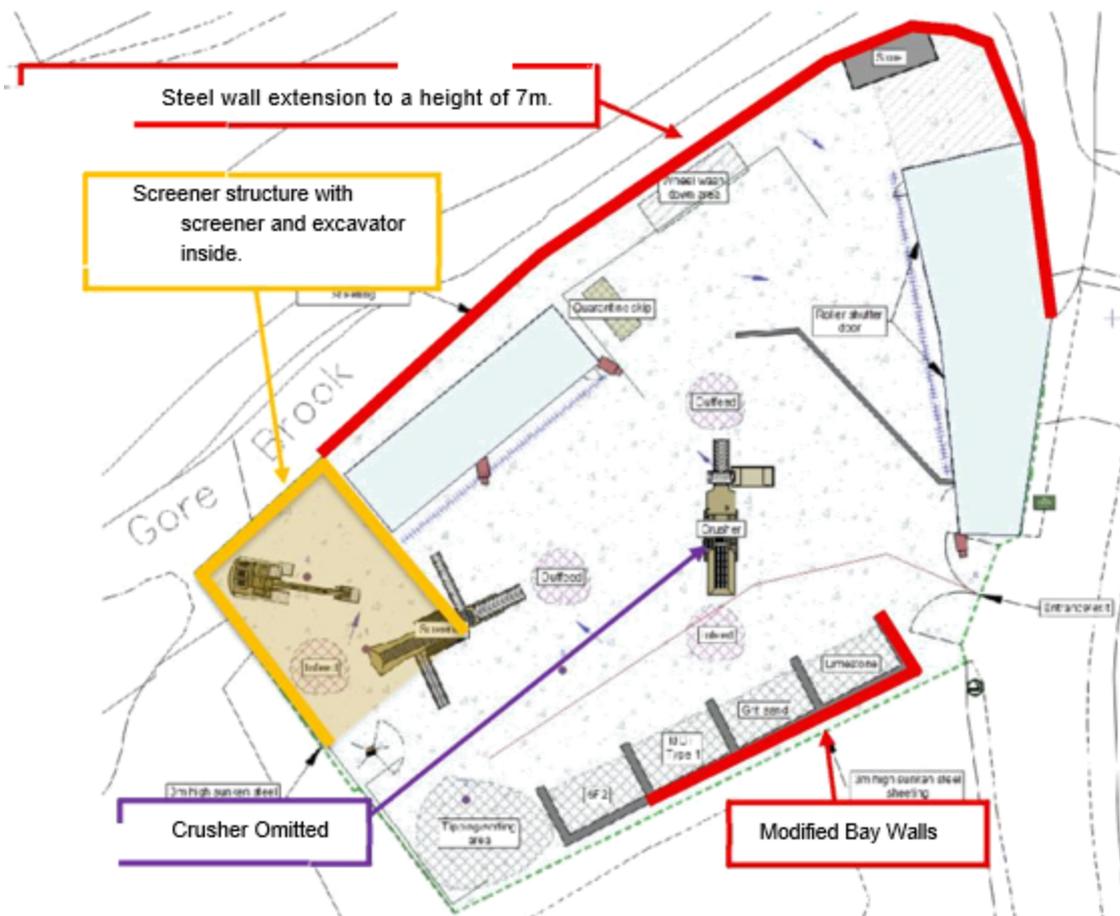


Figure 3 – Indicative Acoustic Screening Strategy

2.3.4 The canopy has been modelled as open fronted 6m tall industrial building. The structure should be a steel portal-frame construction with a minimum of Kingspan AWP / KS1 000RW panels; the assumed sound insulation performance is shown below.

Table 2 - Min. Required Building Envelope Sound Insulation

Description	Octave Frequency Band (Hz, SRI dB)								R _w (dB)
	63	125	250	500	1k	2k	4k	8k	
Kingspan AWP Panel (Acoustic Performance Guide)	15	16	19	23	26	22	39	39	24

2.3.5 Based on the modelling, the internal elevations and roofing of the structure should be lined with 50mm mineral wool slab insulation, held in place via a perforated steel liner sheet (min. 33% free area). It may be necessary to install a glass tissue lining to protect the mineral wool from dust and significant moisture. The manufacturer should be consulted to confirm this, however. Alternatively, a closed/open cell foam product of at least Class A absorption could be installed provided it is weather resistant.

2.3.6 The absorption performance has been modelled in accordance with the measurement data contained within the Kingspan Acoustic Performance Guide.

2.3.7 Shown overleaf are screenshots of the 3D modelling.

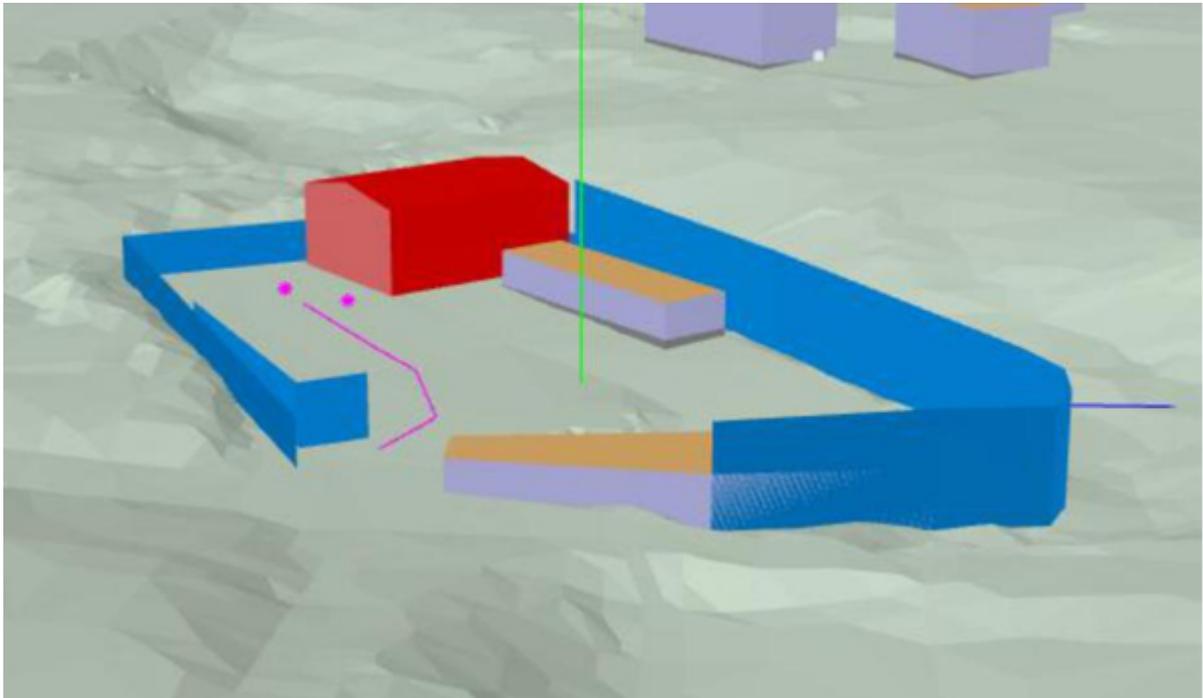


Figure 4 – 3D Modelling

2.3.8 In all instances, the noise emissions breaking out of the buildings is calculated within SoundPlan (in accordance with BS12354) accounting for the following:

- a) Absorption spectrums and scattering coefficients have been obtained from the SoundPlan library or the Kingspan Acoustic Performance guide.
- b) The internal ambient noise levels have been calculated using SoundPlans 'Hall in/out' feature. The calculated levels ranged between 76 to 80dBA within the screener building.
- c) The assumed building fabric sound reduction shown in Table 8.
- d) A Cd diffusivity term correction of -3dB for noise breakout from solid absorptive elements (façades & roofing) and openings.

2.4 Equipment Maintenance

- 2.4.1 All failed/broken plant and equipment will be replaced with equivalents that produce equal or lower levels of noise. This will be verified with manufacturers technical datasheets or on-site noise measurements.
- 2.4.2 All plant and machinery will be regularly and properly maintained in accordance with the preventative maintenance schedule of which the appropriate staff will be trained in.

2.5 Operator Monitoring Plan

- 2.5.1 Monitoring of noise emissions from the site will be undertaken both subjectively and objectively.

Continuous Subjective Noise Monitoring

- a) All operational staff will, as part of their induction, be made aware of their roles and responsibility. It is the responsibility of all staff to be aware of noise on site and to report any potential noise issues to the sites Operations Manager at the earliest opportunity.
- b) All staff will have refresher training on noise issues, prevention and management at six-monthly intervals.
- c) If members of staff report any instances of elevated noise, this should be investigated immediately. In the event that increased noise levels are verified; the source of the noise should be taken out of commission and must be fixed/corrected prior to the equipment being put back into commission.
- d) A visual inspection of all equipment should be made before use to ensure that there are no obvious faults or malfunctions that could lead to elevated noise levels. It will be ensured that all noise mitigation measures (silencers, etc.) are installed as per manufacturer's guidance.

Objective Noise Monitoring

- e) A class 2 sound level meter should be purchased to measure sound levels on site. This will take place during typical operations when the site is in use and associated plant vehicles are operating as normal.

2.5.2 Noise levels will be measured at monthly intervals. Example locations are given below.



Figure 7 – Proposed Monitoring Locations

- 2.5.3 LAeq, 1 hour (A-weighted noise levels averaged over a 1-hour assessment period) and LAF_{max} noise levels will recorded. Measurements taken on site will be compared with previous measurements. If LAeq, 1 hour noise levels increase by more than 3 dB from the previous month then cause of the increase shall be investigated.
- 2.5.4 When the source of the elevated noise levels is discovered, remedial work shall be undertaken to reduce noise emissions to 'normal' levels. If complex remedial work is required, the offending equipment will be taken out of commission until repair work is completed. This will be logged.

3 Noise Control Measures Summary

3.1.1 BAT- Best Available Techniques:

- a) Where possible, all wagon and mobile plant engines will be shut down and not left idling.
- b) Reversing alarms will be self-adjusting white noise models.
- c) Vehicle horns to be used as a Health and Safety measure only.
- d) Deliveries will be spread evenly throughout the day where practicable.
- e) All mobile plant will be fit with the appropriate exhaust silencers and radiator intake attenuators.
- f) Excavator bucket rattling will be avoided whenever possible.

3.2 BPM (Best Practicable Means)- Physical Noise Control Measures

- 3.2.1 The mitigation scheme advised in Section 3.4 (figure 3) will be implemented in full and retained throughout the lifetime of the development.

Management Control Measures

- a) Users of on-site plant and equipment complete a daily defect log at the beginning of the working day if they observe that their vehicle is not working to its optimum. An on-site mechanic actions the defect log on the same working day and machines are not used until this action has been completed.
- b) Tool-box talks are provided by site management on a regular basis to site operatives. These talks include all aspects of the management plans for this site.
- c) Plant maintenance schedules using the manufacturer's recommendations where vehicles are serviced after 500 hours of operation.
- d) Pre-use checks are completed prior to using plant and equipment daily.
- e) Defects are reported and actions are taken to rectify the problem or remove the offending item from service until such time as the issue is resolved.
- f) All plant and equipment are visually inspected by the operator at the end of the working day.

- g) Throughout the day operators are vigilant in checking vulnerable areas like exhausts and engine bays.
- h) Specialist contractors are used to perform maintenance outside the scope and expertise of the site management and operatives.
- i) All documentation relating to plant and equipment maintenance is retained in the site office for inspection.

3.3 Noise Complaint Investigation

- 3.3.1 It is understood that an Issue Management System ('IMS') is not currently implemented.
- 3.3.2 Therefore, this should be completed by a site manager and should include a site diary, plus forms and records of complaints. Further to this, a complaints procedure should be implemented; this procedure would need to allow for all complaints, feedback and requests made by third parties regarding the site's operational activities, as well as the health and safety performance or quality of service/product.
- 3.3.3 A phone number for the head office should be available online (it is understood that this available) in order to allow for any member of the public to lodge a complaint without entering the operational site. The operations manager will be specifically assigned to deal with complaints.
- 3.3.4 All complaints received from third parties including statutory authorities, statutory consultees, members of the general public and representatives of the company will be forwarded to the operations manager to action as below within 2 hours (where feasible). The complaint will be logged in the incident database within 72 hours.

The operations manager will ensure that:

- a) The complaint is investigated to identify the cause, if necessary, this may involve direct communication with the complainant.
- b) The noise source will be measured using a class 2 sound level meter and compared with monthly objective monitoring records.

- c) In the event of elevated noise being detected, the presence of 'abnormal' onsite activity is assessed and if necessary, action is taken immediately to prevent a reoccurrence of the same problem. These actions must be documented.
- d) The complainant will be contacted and given information on the investigations conducted and actions taken as appropriate.
- e) All complaints are reported to regional directors and discussed at site meetings.
- f) Details of other complaints are sent to the other company personnel as appropriate.

3.3.5 If the investigation indicates that the complaint has not been justified this will be clearly recorded on the incident report. All complaints will be logged.

3.4 Reporting Measures

3.4.1 In the event of elevated levels of noise being identified, the event will be reported into the IMS by a member of operational staff. Upon notification of an environmental incident, the site manager will complete an incident reporting form. The completed form is then distributed throughout the company for review at operational, management and health and safety meetings.

3.4.2 All performance failures will be categorised for input into the IMS as follows:

- a) Minor event: quick fix possible, locally resolved.
- b) Medium event: brief disruption to service, management intervention required.
- c) Major event: significant disruption to service.

3.4.3 Each non-conformance category must have a given deadline for rectification. The deadline for each category is:

- a) Minor Event: within 24 hours
- b) Medium Event: within 6 hours
- c) Major Event: within 1 hour

- 3.4.4 The IMS/EHS will record any actions taken to rectify the issue, ensure that any necessary actions or review are recorded onto the IMS/EHS and ensure that the person reporting the incident is notified. The site manager will investigate the performance failure within a reasonable time frame (ideally 2 hours). Once the issue has been resolved, the corrective action will be entered onto the system, and the issue will be closed.

Appendix I

Complaints Report Form

COMPLAINTS PROCEDURE

- 1) Any complaints received in relation to noise and vibration will be recorded on the form below. This form will normally be completed, signed and dated by the site operator, if they are not available, the Office Manager will complete the form.
- 2) The name, address and telephone number of the caller will be requested.
- 3) Each complaint will be given a reference number.
- 4) The caller will be asked to give details of:
 - the nature of the complaint.
 - the time.
 - how long it lasted.
 - how often it occurs.
 - is this the first time the problem has been noticed; and,
 - what prompted them to complain.
- 5) The person completing the form will then, if possible, make a note of:
 - the weather conditions at the time of the problem (rain snow fog etc.)
 - strength and direction of the wind; and,
 - the activity on the site at the time the noise was detected, particularly anything unusual.
- 6) The reason for the complaint will be investigated and a note of the findings added to the report.
- 7) The caller will then be contacted with an explanation of the source of the complaint if identified and the action taken to prevent a recurrence of the problem in future.
- 8) If the caller is unhappy about the outcome or unwilling to identify themselves the caller will be referred to the EA.
- 9) Following any complaint, the complaints procedure will be reviewed to see if any changes are required or if new procedures need to be put in place.

Complaints Report Form	
Date Recorded	Reference Number
Name and address of caller	
Telephone number of caller	
Time and Date of call	
Nature of complaint (Noise, vibration) (Date, time, duration)	
Weather at the time of complaint (Rain, snow, fog, etc.)	
Wind (strength, direction)	
Any other complaints relating to this report	
Any other relevant information	
Potential reasons for complaint	
The operations being carried out on site at the time of the complaint.	
Follow Up	
Actions taken.	
Date of call back to complainant	
Summary of call back conversation	
Recommendations	
Change in procedures.	
Changes to Noise & Vibration Management Plan	
Date changes implemented	
Form completed by	
Signed	
Date completed	