



EA Permitting Noise Management Plan

Site Address: A & C Tyres Collection Services Ltd, Little Warley Hall Lane, CM13 3EN

Client Name: Oaktree Environmental

Project Reference: NP-013538-NMP

In partnership with:



Authorisation and Version Control

Revision	Reported By	Checked By
01	P. Soler, BEng, MIOA	T. Watkin, MSc, MIOA

Amendment History

Revision	Date	Summary of Amendments
01	06/01/2026	--

Disclaimer

This document has been prepared for the Client only and solely for the purposes expressly defined herein. NOVA Acoustics Ltd owe no duty of care to any third parties in respect of its content. Therefore, unless expressly agreed by NOVA Acoustics Ltd in signed writing, NOVA Acoustics Ltd hereby exclude all liability to third parties, including liability for negligence, save only for liabilities that cannot be so excluded by operation of applicable law. This report has been solely based on the specific design assumptions and criteria stated herein.

All works undertaken by NOVA Acoustics Ltd are carried out in accordance with NOVA Acoustics Ltd's terms and conditions found at www.novaacoustics.co.uk.

Contact Details

NOVA Acoustics Ltd,
Suite 13, Crown House,
94 Armley Road,
Leeds,
LS12 2EJ

0113 322 7977

www.novaacoustics.co.uk

technical@novaacoustics.co.uk

Delivering sustainable development by promoting good health and well-being through effective management of noise.

Contents

1.	NOISE MANAGEMENT PLAN ('NMP')	4
1.1	Site Description & Context	4
1.2	Maintenance and Review of the NMP	5
1.3	Noise Sensitive Receptors	6
2.	NOISE SOURCES & PROCESSES	7
2.1	NIA Conclusion – NP-013538	7
2.2	Noise Sources.....	7
2.3	Required Mitigation & Noise Control Measures	9
2.4	Equipment Maintenance	10
2.5	Operator Monitoring Plan	10
2.6	Management Control Measures	11
2.7	Noise Complaint Investigation.....	12
2.8	Reporting Measures.....	13
	APPENDIX A – ACOUSTIC TERMINOLOGY	14

List of Figures

<i>Figure 1 – Measurement Locations and Site Surroundings</i>	6
<i>Figure 2 – Acoustic Screening Location</i>	9
<i>Figure 3 – Indicative Monitoring Locations</i>	11

List of Tables

<i>Table 1 – NSR Identification</i>	4
<i>Table 2 – Site Operating Hours</i>	5
<i>Table 3 – External Source Sound Power Levels</i>	7
<i>Table 4 – Internal Sound Pressure Levels</i>	8
<i>Table 5 – Assumed Building Envelope Sound Insulation</i>	8
<i>Table 6 – Mobile Plant Sound Power Levels</i>	8

1. Noise Management Plan ('NMP')

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:

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

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.

1.1 Site Description & Context

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

NSR	Distance from Site Boundary	Description
NSR1	25m W	A detached two-storey dwelling overlooking the existing industrial estate.
NSR2	75m W	'Meadowside' two-storey dwelling set back approximately 23m from Little Warley Hall Lane.
NSR3	55m NW	A detached two-storey dwelling set back approximately 23m from Little Warley Hall Lane.
NSR4	120m S	'Prettigate Farm' two-storey dwelling set back approximately 18m from Little Warley Hall Lane.

Table 1 – NSR Identification

Across all of the above NSRs, road traffic noise from both the A127 to the north and M25 to the south are highly dominant.

Hours of Operation

The following hours of operation shall be adhered to:

Periods	Proposed Operations
Monday – Friday	07:00 – 17:00 hours
Saturday	No operations
Sunday	No operations
Bank & Public Holidays	No operations

Table 2 – Site Operating Hours

1.2 Maintenance and Review of the NMP

- The Site Manager will be responsible for the NMP and ensuring people are trained.
- The NMP will be kept in the site office.
- The NMP will be reviewed annually, or sooner in the event of substantiated complaint related to noise.
- 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.
- 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.
- All employees and sub-contractors of A & C Tyres Collections Services 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.

1.3 Noise Sensitive Receptors

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



Imagery ©2025 Airbus, Imagery ©2025 Airbus, Maxar Technologies, Map data ©2025

Figure 1 – Measurement Locations and Site Surroundings

2. Noise Sources & Processes

2.1 NIA Conclusion – NP-013538

A BS4142 assessment has undertaken of the bespoke permit operations in accordance with BS4142:2014+A1:2019, the Environment Agency's requirements and relevant national policy and guidance.

An initial screening assessment indicated that the following BS4142 outcomes are predicted at the following NSRs.

- NSRs 1 & 3 - 'Significant Adverse Impact'
- NSRs 2 & 4 – A low likelihood of 'Adverse Impact'

To reduce the noise impact to more acceptable levels a scheme of mitigation measures was recommended within Section 3.7.

2.2 Noise Sources

External Equipment & Operations

Shown in the table below are the 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		
Bespoke Permit Operations / Equipment										
Mechanical Tyre Cutter (eagle tuf-cut)– Idling ^[3]	105	102	95	92	90	87	82	96	98	100%
Mechanical Tyre Cutter (eagle tuf-cut)– Cutting ^[3]	116	113	112	109	109	108	107	108	116	80 sec
Tyre Bailer ^[3]	80	81	90	85	85	79	75	85	90	60%
Makita Hand Tool Tyre Cutter ^[3]	93	104	98	101	107	105	103	111	114	60%

Notes:

[1] 4no. 1-second peaks were measured over a typical 3-min period, which equates to a total of 80 seconds per hour when working continuously. Considering the current workflow, and for robustness, it is assumed that the machine currently works for the 50% of the time, equating to 40 seconds per hour.

[2] A Q factor of 8 has been applied as the measured bailer was partially covered. These levels are representative of all three balers for robustness.

[3] Due to the increased waste throughput of the bespoke permit, the 'on-time' is assumed to double. This was confirmed by site representatives.

Table 3 – External Source Sound Power Levels

Internal Noise Breakout Emissions

Shown in the following table are the expected internal ambient noise levels within the workshop.

Description	1/1 Octave Frequency Band (Hz, L _{eq,T} dB)								L _{Aeq,T} (dB)	On-Times
	63	125	250	500	1k	2k	4k	8k		
Bespoke Permit										
Internal Hand Tyre Cutter	72	79	80	76	77	75	72	81	84	60%
Internal Tyre Popper	68	78	79	77	79	77	88	84	91	60%
Cumulative	73	82	83	80	81	79	88	86	92	60%

Table 4 – Internal Sound Pressure Levels

Building Structures

Based on the observations on-site, the bottom 2.6m of the main building is comprised of corrugated steel with 200mm timber studs and nominal plywood. The rest of the building envelope (top section of the walls, roofing & closed roller shutter door) are comprised of a single layer of corrugated steel.

The sound insulation performance of the external envelope has been calculated with INSUL 9.0 and is displayed below. Any open areas have been modelled as having an R_w of 0dB.

Description	Octave Frequency Band (Hz, SRI dB)								R _w (dB)
	63	125	250	500	1k	2k	4k	8k	
Bottom Wall Sections (0.6mm steel, 200mm timber stud, 10mm plywood)	9	11	25	32	39	38	42	42	34
Upper Wall Sections, Roofing & RSD (0.6mm steel)	8	10	14	19	24	29	34	34	23

Table 5 – Assumed Building Envelope Sound Insulation

Mobile Plant Movements

A summary of all mobile plant movements is shown in the table below.

On the days of the surveying, no van deliveries took place. As such, archive data collected by NOVA Acoustics has been utilised.

Description	1/1 Octave Frequency Band (Hz, L _w dB)								L _{WA} (dB)	On-Time Correction
	63	125	250	500	1k	2k	4k	8k		
Bespoke Permit										
Van Pass-by ^[1]	88	81	78	77	77	76	72	68	82	2.2m/s (4 e/h)
Forklift Pass-by & Lifting ^[2]	77	76	75	73	69	67	65	57	75	60%

Notes:

[1] Measured by NOVA Acoustics during a site visit for report NP-011281.

[2] Measured by NOVA Acoustics during a site visit for report NP-012133-2.

Table 6 – Mobile Plant Sound Power Levels

2.3 Required Mitigation & Noise Control Measures

It is deemed that to reduce and maintain the predicted noise levels, Best Available Techniques ('BAT') are employed. These have been detailed in the noise impact assessment, however, have been reproduced below for reference.

1. Plant Specification, Procurement & Physical Noise Control Measures

- Where practicable, procure quieter plant such as an electrically powered disk cutter.
- A minimum 2.4m tall acoustic screen should be installed around the mechanical tyre cutter (Eagle 'Tuf-Cut') and that the hand-held Makita tyre cutter operation is relocated to within the screened area.
 - o The screen should have a minimum surface mass of 15kg/m² and not contain any holes or gaps.
 - o Shown in the figure below is an illustration of the proposed screening location. The proposal has considered the current site layout and access needs to the machine.



Figure 2 – Acoustic Screening Location

- Prior to commissioning, undertake on-site verification measurements of noise breaking out the acoustic compound to confirm compliance with predicted impact levels.
- The roller shutter door to the workshop should remain closed during all tyre cutting and popping activities.

2. Operational Controls

- Drops heights should be reduced where practicable.
- Position mobile plant and loading operations away from sensitive boundaries where possible, with preference for shielding provided by buildings and barriers.
- Restrict reversing alarms to broadband or "white noise" types.

3. Ongoing Noise Management

- Implement the site-specific Noise Management Plan including staff training, preventative maintenance, monitoring, complaint procedures, and reporting.
- Establish routine noise monitoring detailed in the Noise Management Plan to validate compliance and support continuous improvement.

4. Review and Continuous Improvement

- Reassess noise performance following commissioning of the acoustic compound in the east of the site.
- Where necessary, refine mitigation and operational practices to ensure noise impacts remain consistent with the NPSE and EA permit requirements.

2.4 Equipment Maintenance

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.

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

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

Continuous Subjective Noise Monitoring

- 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.
- All staff will have refresher training on noise issues, prevention and management at six-monthly intervals.
- 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.
- 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

- 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.

Monthly Measurements

Noise levels will be measured at monthly intervals; indicative locations shown overleaf.



Figure 3 – Indicative Monitoring Locations

- $L_{Aeq,1hour}$ (A-weighted noise levels averaged over a 1-hour assessment period) and L_{AFmax} noise levels will be recorded. Measurements taken on site will be compared with previous measurements. If $L_{Aeq,1hour}$ noise levels increase by more than 3dB from the previous month then the cause of the increase shall be investigated.
- 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 in an IMS (Issue Management System).

2.6 Management Control Measures

- 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.
- 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.
- Plant maintenance schedules using the manufacturer's recommendations where vehicles are serviced after 500 hours of operation.

- Pre-use checks are completed prior to using plant and equipment daily.
- 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.
- All plant and equipment are visually inspected by the operator at the end of the working day.
- Throughout the day operators are vigilant in checking vulnerable areas like exhausts and engine bays.
- Specialist contractors are used to perform maintenance outside the scope and expertise of the site management and operatives.
- All documentation relating to plant and equipment maintenance is retained in the site office for inspection.

2.7 Noise Complaint Investigation

It is understood that an Issue Management System ('IMS') is not currently implemented.

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.

A phone number for the site manager 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.

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:

- The complaint is investigated to identify the cause, if necessary, this may involve direct communication with the complainant.
- The noise source will be measured using a class 2 sound level meter and compared with monthly objective monitoring records.
- 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.
- The complainant will be contacted and given information on the investigations conducted and actions taken as appropriate.
- All complaints are reported to regional directors and discussed at site meetings.
- Details of other complaints are sent to the other company personnel as appropriate.

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.

2.8 Reporting Measures

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.

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

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

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

- Minor Event: within 24 hours
- Medium Event: within 6 hours
- Major Event: within 1 hour

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 A – Acoustic Terminology

A-weighted sound pressure level, L_{pA}	Quantity of A-weighted sound pressure given by the following formula in decibels (dBA). $L_{pA} = 10 \log_{10} (pA/p_0)^2$. Where: pA is the A-weighted sound pressure in pascals (Pa) and p_0 is the reference sound pressure (20 μ Pa)
Background Sound	Underlying level of sound over a period, T , which might in part be an indication of relative quietness at a given location
Equivalent continuous A-weighted sound pressure level, $L_{Aeq,T}$	Value of the A-weighted sound pressure level in decibels (dB) of a continuous, steady sound that, within a specified time interval, T , has the same mean-squared sound pressure as the sound under consideration that varies with time
Facade level	Sound pressure level 1 m in front of the facade
Free-field level	Sound pressure level away from reflecting surfaces
Indoor ambient noise	Noise in a given situation at a given time, usually composed of noise from many sources, inside and outside the building, but excluding noise from activities of the occupants
Noise Criteria	Numerical indices used to define design goals in a given space
Noise Rating (NR)	Graphical method for rating a noise by comparing the noise spectrum with a family of noise rating curves
Octave Band	Band of frequencies in which the upper limit of the band is twice the frequency of the lower limit
Percentile Level, $L_{AN,T}$	A-weighted sound pressure level obtained using time-weighting “F”, which is exceeded for $N\%$ of a specified time interval
Rating Level, $L_{Ar,Tr}$	Equivalent continuous A-weighted sound pressure level of the noise, plus any adjustment for the characteristic features of the noise
Reverberation time, T	Time that would be required for the sound pressure level to decrease by 60 dB after the sound source has stopped
Sound Pressure, p	root-mean-square value of the variation in air pressure, measured in pascals (Pa) above and below atmospheric pressure, caused by the sound
Sound Pressure Level, L_p	Quantity of sound pressure, in decibels (dB), given by the formula: $L_p = 10 \log_{10} (p/p_0)^2$. Where: p is the root-mean-square sound pressure in pascals (Pa) and p_0 is the reference sound pressure (20 μ Pa)
Weighted sound reduction index, R_w	Single-number quantity which characterizes the airborne sound insulating properties of a material or building element over a range of frequencies



NOVA
ACOUSTICS