Noise Management Plan

CONTENTS

1. INTRODUCTION

This document provides the Noise Management Plan prepared in accordance with Environment Agency Guidance[1] in support of environmental permit application variation for EPR/BB3507XB/V002 MLB Autospares Ltd wish to add the following to their existing permit.

- Total tonnage to be increased to 50,000 tpa

No other chages apart from throughput increase.

The operation is a car breakers yard at Kilnhurst Rd, Rotherham S64 5TL. It is a large site of around 1.5 HA. Undepolluted vehicles are brought to site and depolluted in the depollution bay under cover. Depolluted vehicles are then broken for parts and the shells baled.

The site has a sealed drainage system with concrete and interceptors that discharge to soakaways.

[1] H3 Horizontal Guidance Noise Management (IPPC H3 part2)

The overall responsibility for this procedure is the Environmental Manager. The Environmental Manager will be responsible for ensuring that all staff are trained in this procedure.

1.1 The Site Manager is responsible for ensuring that the day-to-day operations are carried out in accordance with this procedure.

1.2 All staff are responsible for implementing this procedure and have a duty to carry out their roles to prevent noise emissions. This plan will periodically be communicated to staff via tool box talks and will be available in the office for all staff to access.

This plan is documented based upon the outputs of the noise impact assessment conducted November 2024 – RFE-0593-24-01-02

Site Description

1.3 The site is located at S64 5TL in Rotherham. It is a very rural industrial yard surrounded by farmland and agriculture with few residential neighbours.

The site operates 24/7 but this is not regular. The business operates between the following hours: 08:00 hrs to 18:00 hrs Monday to Friday; and 08:00 hrs to 12:00 hrs on Saturdays.

1.4 Not all plant will run at weekends and operations are sporadic.

1.5 There is an anti-idling policy on site and movements are limited to 10mph.

1.6 At all other times there will be controls on noise production on site including but not limited to appropriate timing of operations (see 1.7), maintenance of equipment as it ages by regular maintenance, switching plant and vehicles when not in use, regular audible and physical monitoring to identify unusual noise sources as documented elsewhere in this NMP.

1.7 A basic site layout is provided in Appendix A.

1.8 The company Environmental Management System (EMS) will be updated and revised accordingly as a living document as environmental and noise management develops

2. SOURCES, RELEASES, IMPACTS

2.1 This section sets out the protection sources of noise, potential release points and receptors.

Source Materials - Inventory

2.2 Given the operations, it is considered that the activities which are most likely to give rise to noise are those in Table 2 below.

Item	Plant Operating	Measurement Distance (m) to Plant	Date	Measurement Start Time (hh:mm)	Dur. (hh:mm:ss)	Measured Sound Levels, dB		
						$L_{Amax,F}$	$L_{Aeq,T}$	$L_{A90,T}$
1	Unloading vehicles from Lorry with Forklift	10	27/09/2024	10:09	00:01:00	78.1	66.9	61.4
				10:10	00:01:00	78.7	64.6	60.1
				Cumulative		**78.7**	**65.9**	**60.8**
2	Lorry Idle	1		10:12	00:00:46	78.7	73.9	65.9
3	Lorry Pass	5		10:13	00:00:35	72.2	66.0	59.3
4	Noise Breakout from Building 1. Sources include use of Light hand tools and airgun	5		10:16	00:01:00	73.0	68.7	66.3
				10:17	00:01:00	78.0	69.6	65.6
				10:18	00:01:00	89.9	75.3	67.1
				10:19	00:01:00	83.0	72.9	67.7
				10:20	00:01:00	84.7	75.0	64.5
				Cumulative		**89.9**	**73.1**	**66.2**
5	Noise Breakout from Building 2. Sources include use of Light hand tools short compressor sound and airgun	3		10:22	00:01:00	78.2	66.8	60.7
				10:23	00:01:00	88.6	78.9	59.6
				10:24	00:01:00	82.2	73.1	60.1
				Cumulative		**88.6**	**75.3**	**60.1**
6	Noise Breakout from Building 3. Sources include use of Light hand tools	7.5		10:26	00:01:00	82.6	69.9	60.9
				10:27	00:01:00	72.7	64.0	57.8
				10:28	00:01:00	85.8	68.2	61.5
				Cumulative		**85.8**	**68.0**	**60.1**
7	Noise Breakout from Building 4. Sources include use of Light hand tools and air gun.	5		10:35	00:01:00	78.5	69.4	64.3
				10:36	00:01:00	81.9	72.3	65.3
				Cumulative		**81.9**	**71.1**	**64.8**
8	Excavator moving scrapped cars	10		10:40	00:01:00	77.3	69.7	67.8
9	Bailer. Bailing cars.	5		10:47	00:01:00	88.7	82.5	80.4
				10:48	00:01:00	90.1	78.1	73.6
				10:49	00:01:00	106.9	85.4	79.2
				Cumulative		**106.9**	**82.9**	**77.7**
10	Scrap Loader. Loading Bailer.	5		10:51	00:01:00	86.8	80.9	76.1

TABLE 4.6: SUMMARY OF ATTENDED SOURCE-TERM SOUND MEASUREMENTS – FRIDAY 27TH SEPTEMBER 2024

Note: Underlying residual sound levels <10dB source levels for items 1-10.

Item	Plant Operating/Notes	Measurement Distance (m) to Plant	Date	Measurement Start Time (hh:mm)	Dur. (hh:mm:ss)	Measured Sound Levels, dB		
						$L_{Amax,F}$	$L_{Aeq,T}$	$L_{A90,T}$
11	In garden area of Beechwood House Dwelling. Sound Includes industrial sound from adjacent premises (not MLB Autos) and is main source. Bailer and excavator not heard at Dwelling. Occasional sound from reverse alarms on site. Unable to isolate site noise from other sources.	5m from receptor façade	27/09/2024	11:26	00:15:00	67.3	52.3	46.7
12	Main noise sources include sound from excavator, bailer and Scrap sorter. Occasional high speed train passes.	5m from south east site boundary		11:44	00:15:00	75.7	56.0	49.2

TABLE 4.6 (CTD.): SUMMARY OF ATTENDED SOURCE-TERM SOUND MEASUREMENTS – FRIDAY 27TH SEPTEMBER 2024

Item	Plant Operating/Notes	Measurement Distance (m) to Plant	Date	Measurement Start Time (hh:mm)	Dur. (hh:mm:ss)	Measured Sound Levels, dB		
						$L_{Amax,F}$	$L_{Aeq,T}$	$L_{A90,T}$
13	At the front of Brookhouse dwelling 2m from the road. Vehicles passing and industrial noise are the main sound sources at this location. The excavator can be heard only during periods of low residual sound i.e. when there are no cars passing and other industrial sound at its lowest. Bailer and scrap sorter not heard. 1 lorry enter site.	5m from receptor façade	04/10/2024	11:35	00:05:00	79.3	67.4	52.0
				11:40	00:05:00	80.5	67.3	51.7
				11:45	00:05:00	78.9	65.5	49.1
				Cumulative		**80.5**	**66.8**	**50.9**

TABLE 4.7: SUMMARY OF ATTENDED SOURCE-TERM SOUND MEASUREMENTS – FRIDAY 4TH OCTOBER 2024

2.3 It is anticipated that the likelihood of noise being emitted from these activities is medium/low on delivery or movement.

Pathways

2.4 The pathways by which the noises from the sources identified above may impact upon a receptor are primarily:

1. **Air** Movement of noise through air, particularly relevant on a site which will load/unload outside.

2. **Direct exposure.** Particularly for staff, they will be exposed immediately to any noises from the product handling on site.

Receptors and Wind Direction

2.5 The site is on a rural yard which means key receptors sensitive

to noise are staff and remote residential properties nearby.

2.6 The nearest residential properties Beechwood House are some 115m.

2.7 The key receptors are shown in Figure 1 & table 2.2.

The prevailing wind direction in the area, where the site is located, is South-Westerly[2].

[2] http://www.metoffice.gov.uk/climate/uk/regional-climates/so

Receptor I.D.	Address	Receptor Type	Approx. Distance from Centre of Site (m)	Direction from Site	Grid Reference	
					X (Easting)	Y (Northing)
R1	Rawmarsh Sandhill Primary School	Educational	463	W	445282	396913
R2	20 Russell Road	Residential	390	NE	445799	397559
R3	19 Wentworth Road	Residential	589	N	446116	397161
R4	Brookhouse	Residential	208	NE	445898	397127
R5	Beechwood House	Residential	115	W	445630	396961

TABLE 2.1: NOISE SENSITIVE RECEPTORS AND APPROXIMATE DISTANCES FROM SITE

It is recognised that there may be some low level impact at the receptors 1-5 above and MLB are cognisant of this. Where possible noise levels will be managed to be as unobtrusive as possible. Noise monitoring and communication with neighbours will be part of this mitigation plan as per sections 3 & 4 below. In addition;

To ensure that noise emanating from the site is reduced as far as reasonably practicable, it is important to manage the noise on site and the following management options should be considered.

Plant Operation

All new plant and machinery to be sourced with regard to noise output. The Environment Agency will be notified of any new plant or machinery.
All plant and machinery to be serviced and maintained as per the manufacturer's specifications.
All plant will be switched off when not in use and not be left to idle.
All new and existing staff will be made aware of the noise management requirements and will be briefed on the importance of noise control. Measures to include the handling of materials, revving of engines, lowing of drop heights when loading material etc.

Figure 1: Site and Key Receptors

Receptor	Type	Distance	Direction	Comments
Priority Habitat/Decidious wood	Habitat	50m	East	Other side of railway

Priority Habitat/Decidious wood	Habitat	100m	South East	Other side of railway
Primary school Kilnhurst Rd	School	300m	West	School
Nearest residential/Sandhill	Residential	700m	West	Residential
Source protection zone 1	Aquifer	1Km	South East	Aquifer

3. PRIMARY NOISE CONTROL MEASURES

3.1 The control measures set out in this NMP are commensurate with the low noise potential for the operations, in accordance with the statement to this effect in “Noise & Vibration Management: Environmental Permit guidance dated 31/01/2022.

3.2 Noise can only cause an impact when it is perceived at a receptor site. This NMP has identified that the key opportunities for release of noises are anticipated to be:

1. When waste is delivered to site and removed.

2. When waste is loaded and unloaded.

3. When the sorting process occurs.

Impacts

3.3 The impacts of any noises released as a result of MLB Autospares Limited's activities will be linked to the receptors identified in Section 1.

3.4 The receptors are more likely to be impacted upon by noise in the following conditions:

- Prevailing wind direction is towards receptors; and
- Local weather conditions. Warm still weather will contribute to the perceived noise at receptors including staff on the industrial estate, school children and residents.
- Cumulative impacts. It is anticipated that cumulative impacts will be minimal. The site is not in an area dominated by facilities which may cause additional noise.

3.5 The impacts of noise from the site are anticipated to be minimal, given the nature of the operation and the location within a semi rural setting. However, this will be confirmed regularly with monitoring and communication with neighbours.

Management of Noise

3.6 If noise monitoring or complaints indicate a problem, MLB Autospares will respond appropriately. Management measures to control releases will include:

- **Reducing the loading/unloading time on site.** As part of the site's Management System, information on the loading/unloading on site will be recorded via operations, including arrival time on site. Minimal handling will ensure that noise is not exacerbated.

  If the Site Manager deems that noise is causing a disturbance, the Site Manager will log this as an incident, using the appropriate forms from the Management System and will take corrective action

The site management will liaise with the contractors/hauliers and transport contractors, with a view to minimising the storage and transport periods for vehicle movements;

- **Unanticipated noises.** Any unexpected noise shall be recorded as to composition, date and time received and cause of noise

- **Timing of loading/unloading.** Site Manager observes that the prevailing wind direction is will not create noises towards the direction of sensitive receptors or when winds are light and noise will be reduced.

- **Containment and abatement**. Given the nature of the operations on site, it is not considered necessary to implement containment and abatement techniques, other than those mentioned in the noise impact report. However, this is a 'live' document and as such will adapt if noise issues arise which are not managed by the actions in this NMP.

4. MONITORING & TRIGGER LEVELS

Introduction

4.1 To ensure that the noise control measures set out in Section 3 are being effective, MLB Autospares Limited will ensure noise monitoring is in place and communication with potential receptors is maintained.

4.2 The following monitoring activities are regularly undertaken to ensure continuous improvement:

- Site inspections by the site manager (as outlined below)
- Site audits conducted by the company's management;
- Site audits and inspections by the Environment Agency.

4.3 All site personnel will be responsible for reporting any noise problems immediately to the site manager (or deputy).

Noise monitoring

4.4 The Site Manager will ensure that regular inspections are made of the site and its perimeter (as per 4.9) in order to identify any sources of noise and to establish whether any noise is discernible at the perimeter and thus likely to impact upon receptors. He will be responsible for complaint handling. Complaints are reviewed at the monthly management meeting.

4.5 In the event that noise is detected at the site boundary, additional monitoring will be undertaken at the sensitive receptors in accordance with Appendix B. The boundary will be walked during the weekly monitoring.

4.6 An auditory test will also take place in response to complaints. The surveyor will undertake the survey at the location of the complaint and at potentially sensitive receptor locations in the vicinity downwind from the site. At each location observations are made concerning the intensity of the noise, its persistence and character (these details will be logged in the pro forma, see Appendix C).

4.7 The surveyor may be the site manager or alternatively a staff member from the office or external person who is not used to the noises on the site. This will be someone who has been trained to use the handheld noise monitors by the manufacturer.

4.8 **Trigger Levels.** If noise is detected at the assessment location and is judged to be a moderate or unacceptable noise, as defined in reference Table A - Appendix B, then the Site Manager and Management Team will be informed immediately and corrective actions will be determined and implemented.

4.9 Monitoring Frequency will be in accordance with Table 3

Technique	Frequency
Noise Monitoring /	Weekly at site perimeter.

Auditory Testing	Noise detection will lead to receptor monitoring. Increase frequency in response to complaints
Complaints system	Continuous (24 hours) via telephone reporting system to Environment Agency Direct complaints to site in operational hours

Table 1 Monitoring Frequency

Communication

4.10 **Liaison with neighbours.** If noise is anticipated on site or weather conditions predicted indicate noises will increase, the Site Manager will liaise with neighbours and ensure they are aware of the situation, how long it is expected to last and how to make a complaint.

4.11 **Signboard.** The site will have a legible signboard giving contact details for the Environment Agency and the operator. These numbers can be used in order to make a complaint.

Complaints procedure

4.12 All complaints, whether direct from people in the neighbourhood, or via the Environment Agency will be treated seriously by MLB Autospares and recorded in the Noise Complaints Form in Appendix C.

4.13 **Trigger Levels.** MLB Autospares Limited recognise that persistent noise can be a concern for neighbours and particularly for residential areas. Every complaint is a trigger for management to take action to investigate the cause of a complaint, as set out in the Noise Complaints form.

5. INCIDENTS AND EMERGENCIES

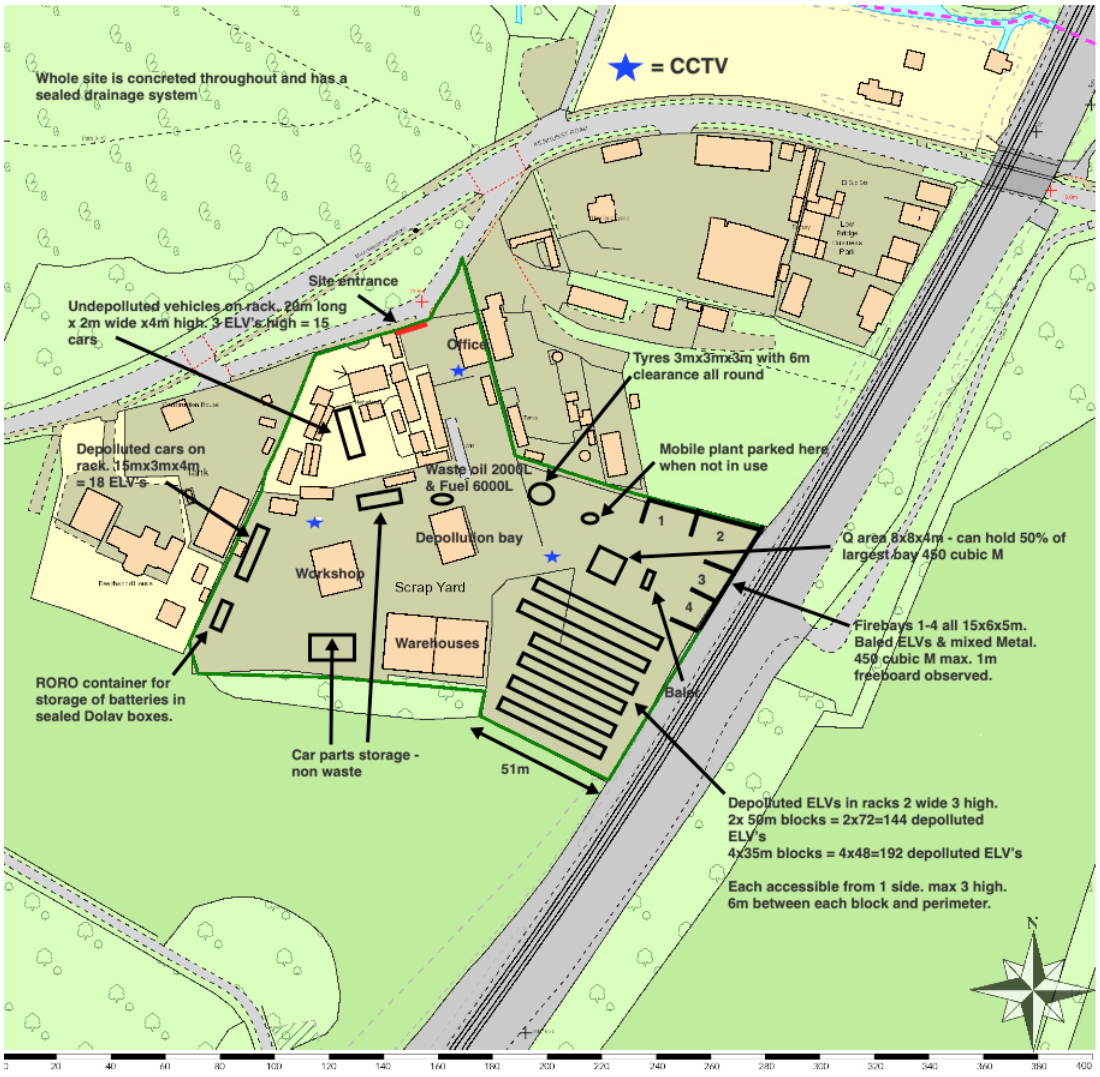
5.1 This section of the NMP relates to potential incidents or emergencies which may impact on the ability of MLB Autospares Limited to control noise from its site.

5.2 Potential incidents and actions which may impact on noise are outlined as follows:

Potential Incident	Actions
Unexpected noise in loading or unloading	The Site Manager will: • Communicate with local receptors on expected duration if excessive. • Record start/stop timings • Record the incident in the site diary and using the appropriate management system forms and records. • Report to the EA if required under the permit
Low wind/still conditions	If noise monitoring detects a problem, the site manager will: • Ensure handling is kept to a minimum • Record the incident in the site diary and using the appropriate management system forms and records.

Unexpected noise during out of hours. Unlikely.	The site manager will • Investigate the cause of the noise • Identify if it can be rectified immediately • Notify local receptors as soon as practical within 3 days. • Records the incident in the site log

APPENDIX-A



Scale: 1:2500 | Area 16Ha | Grid Reference: 445779,396973 | Paper Size: A4

APPENDIX B NOISE SURVEY FORM – STORED IN THE OFFICE FOR 3 YEARS.

Noise Survey Recording Form		Reason for Noise Survey	*Noise detected at boundary? Y/N* *Complaint Y/N* *Other*
Name of Surveyor		Job Title	
Date		Time of Survey Start/Finish	
Air Temp. °C		Wind Direction	

Survey Results

Location	Noise Intensity *See Reference Table A*	Noise Extent *See Reference Table B*	Description of noise *e.g. intermittent, ongoing?*

Reference Table A: Noise Intensity

Noise Intensity	Description
1	No detectable noise
2	Faint noise (barely detectable, need to stand still and look into wind)
3	Moderate noise (noise easily detectable while walking, possibly offensive)
4	Loud noise (bearable, but offensive noise)
5	Very loud noise (this is when you really wish you were somewhere else)

Reference Table B: Noise Extent

Noise Extent	Description
1	Local and not persistent (only detected during brief periods when wind drops or blows)
2	Not persistent as above, but detected away from site boundary
3	Persistent but fairly localised
4	Persistent and pervasive up to 50m from site boundary
5	Persistent and widespread (noise detected >50m from site boundary)

APPENDIX C NOISE COMPLAINT FORM

Complainant Details	
Time and Date of Complaint	
Complainant Name & Address	
Complainant Phone Number/ Email address	
Noise Details	
Date noise noticed	
Time noise noticed	
Location of noise (if not address above)	
Wind Direction (e.g. From South West)	
Complainants Description of Noise:	
-What does it sound like	
-Intensity (see reference Table A, Appendix B)	
Duration – how long was it detected for	
Constant/intermittent in this period	
Complainant comments/observations	
Additional Information	
Are there other complaints from this area?	
Is the site the likely source of noise?	
What was happening on site when the noise occurred?	
Corrective Actions	
Actions Required	
Deadline for Actions	
Person Responsible for implementing actions	
Form completed by -Name and Role	
Date	
Signature	

Appendix D Site Vehicle and Machinery Maintenance

- All site vehicles and machinery will be fitted with working exhaust silencing equipment.
- Staff will not continue to operate any piece of machinery or equipment that appears to be visibly or audibly failing.
- All vehicles and machinery operated within the site will undergo regular planned preventive maintenance/ servicing and inspections, at the frequency deemed appropriate by manufacturer or required by legislation. As a minimum, this will be a statutory annual inspection of lifting (LOLER) and work (PUWER) equipment. Maintenance/ Servicing and inspection records will be kept on site for reference.
- Where the necessary maintenance and repair skill do not exists within the company, a contract for these services will be in place, so that the repair of site vehicles and machinery will be undertaken promptly.
- If mobile plant maintenance/ repair will involve the removal/ loss of potentially polluting fluids from the vehicle, if possible, the vehicle should be moved to impermeable concrete area and worked on there, where any spills will land on an impermeable surface. All fluid leaks or drained oils will be collected in a container and removed.
- Where mobile plant must be repaired in the location that it breaks down, if this is on hard standing, drip trays and absorbent mats will be put in place under the vehicle before work begins, to capture any spills of potentially polluting substances and prevent contamination to the earth below.

Plant and Vehicles will be inspected and recorded below and a copy kept in the office log

Equipment	**When checked**	**Date**	**Comments**	**signed**
Delivery vehicles	weekly			
FLT's	As per manufacturer			
Baler	As per manufacturer			

Sensitive Receptors

The receptors shown are within 1km of the site (black circle). Sensitive human receptors include areas containing residential properties & light industry all round the site.

The site is in on a ruural industrial estate which is bordered to the W by residential areas. To the E by a kennels and residential. The River Don is within 800m E. Key infrastructure includes the railway adjacent to the site.