BANKWOOD LANE WASTE TREATMENT
AND PROCESSING CENTRE

APPLICATION FOR ENVIRONMENTAL PERMIT VARIATION UNDER THE ENVIRONMENTAL PERMITTING (ENGLAND AND WALES) REGULATIONS 2016 (AS AMENDED)

NOISE MANAGEMENT PLAN

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NOISE MANAGEMENT PLAN

BANKWOOD LANE INDUSTRIAL ESTATE, BANKWOOD LANE, ROSSINGTON, DONCASTER

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ACRONYMS / TERMS USED IN THIS REPORT

Attero	Attero Recycling Limited
BAT	Best Available Techniques
BREF	Best Available Techniques Reference Document
CCTV	Closed Circuit Television
EA	Environment Agency
ECL	Environmental Compliance Limited
EMS	Environmental Management System
EP	Environmental Permit
EWC	European Waste Code
NMP	Noise Management Plan
PPMR	Planned Preventative Maintenance Regime
SSSI	Site of Special Scientific Interest
WT	Waste Treatments

1. INTRODUCTION

1.1. REQUIREMENT FOR A NOISE MANAGEMENT PLAN

1.1.1. Environmental Compliance Limited ("ECL") was commissioned by Attero Recycling Limited ("Attero") to produce a Noise Management Plan ("NMP") as part of the variation application for their site (Bankwood Processing Site) at Bankwood Industrial Estate, Rossington, Doncaster, DN11 0PS.

1.1.2. The purpose of this variation is to increase the maximum annual waste throughput from 200,000 tonnes to 400,000 tonnes. The daily capacity of the site would exceed 50 tonnes per day and as a result of this Environmental Permit variation the site would change its status from a waste facility to that of an Installation. To account for this increased waste acceptance, Attero propose to expand the Environmental Permit boundary as shown on the Site Layout Plan (ECL.041.01.01-002), which is submitted as part of this variation application. In addition, Attero wish to develop the waste recycling operations and focus on producing Refuse Derived Fuel (RDF) and Solid Refuse Fuel (SRF), in so doing wish to include a Directly Associated Activity in the form of air drying of the SRF fraction of waste treated at the site.

1.1.3. As part of this variation application, Attero wish to rename their site as Bankwood Lane Waste Processing and Treatment Centre, herein after to as the Installation.

1.1.4. As part of Attero's application to vary the conditions of its existing Environmental Permit (EPR/EB3207LH, Issued 09/05/2016), a NMP has been prepared. The NMP will form part of Attero's Environmental Management System ("EMS").

1.1.5. This NMP has been written to meet the requirements within the Environment Agency's ("EA") online guidance –'*Control and monitor emissions for your environmental permit*' (updated in May 2018, accessed in July 2018 and the EA Sector Guidance IPCC S5.06 '*Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste*' (Issue 4, 2004). The Waste Treatments Industries Best Available Techniques Reference Document ("BREF") (August 2006) will be considered as it covers installations associated with a number of waste treatments, including recovery and disposal of waste. The Waste Treatments BREF BAT Conclusions published in August 2018 will also be considered.

1.1.6. This NMP addresses the following issues:

- the materials and/or activity which could produce noise and the potential point(s) of noise emissions;
- identification of potential sensitive receptors;
- process controls and procedures;
- potential corrective actions; and
- record keeping.

1.1.7. The NMP provides information on the potential noise impacts from the Installation and the mitigation measures to be implemented. These measures are linked to the Installation's EMS and will include operational and control measures for normal, as well as abnormal conditions.

1.1.8. The NMP also provides a management framework comprising of proactive and reactive measures to manage and control potentially odour releases from the Installation. This proactive approach will facilitate the ongoing development of operational procedures and controls as part of an on-going commitment to improving environmental performance. Reactive procedures will also be established within the NMP for the logging, evaluation and implementation of corrective actions in the unlikely event of any odour related complaints being received.

2. DESCRIPTION OF THE SITE AND PROCESS

2.1. SITE LOCATION AND SETTING

2.1.1. Attero is located on Bankwood Lane, Rossington, Doncaster, DN11 0PS, and is centred on National Grid Reference 460526 399122. The exact location of the proposed Installation is indicated on Drawing ECL.041.01.01-01 Site Location Plan contained within Section 8 of this variation application documentation.

2.1.2. The site is situated within Bankwood Lane Industrial Estate and the surrounding land uses are provided in Table 1 below. At present, the closest human receptors are residents in the New Rossington area.

Table 1: Summary of Surrounding Land Uses

Boundary	Description
North	Residential (Bessacarr), schools, places of worship, retail park, Potteric Carr Wetlands
East	Residential (Rossington), allotments, places of worship, The Warren Golf Course, River Torne, playing fields, agricultural farm
South	Bankwood Lane Industrial Estate, residential (New Rossington), schools, cemetery, River Torne, agricultural farm
West	Potteric Carr Wetlands, agricultural farm

2.2. DESCRIPTION OF THE PROCESSES UNDERTAKEN

2.2.1. As part of the permit variation application, Attero is proposing to fall under the listed activities detailed in Table 2 under the Environmental Permitting (England and Wales) Regulations 2016 ("EP Regulations") as amended.

Table 1: Proposed Schedule 1 Activities

Activity listed in Schedule 1 of the EP Regulations	Description of Specified Activity
Section 5.4 A(1) (a) (ii)	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC concerning urban waste-water treatment(a)— (ii) physico-chemical treatment;
Section 5.4 A(1)(b)(ii)	Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC – (ii)pre-treatment of waste for incineration or co-incineration.

2.2.2. Attero is also proposing to increase the annual throughput to 400,000 tonnes. This will enable approximately 350,000 tonnes of SRF/RDF, 45,000 tonnes of recycled material (wood, plastic, paper/cardboard, metals, soils and hardcore) and 5,000 tonnes of non-recyclable waste to landfill.

2.2.3. In addition, Attero wish to develop the waste recycling operations and focus on producing Refuse Derived Fuel (RDF) and Solid Refuse Fuel (SRF), in so doing wish to include a Directly Associated Activity in the form of air drying of the SRF fraction of waste treated at the site.

2.2.4. Waste treatment at the site consists of:

- sorting and separating waste types both mechanically and by hand;
- recycling various waste types, including metals, wood, plastics and aggregates;
- shredding non recyclable material to recover the waste as fuel products;
- blending waste materials to produce useable products (e.g. soils or fuels);
- drying waste to improve fuel quality reduce the moisture content of waste outputs. This would be carried out by passing warm air through/over waste materials; and
- baling of waste materials for export as fuels.

2.2.5. The waste management operations to be carried out at the site as specified in Annex I and Annex II of the Waste Framework Directive 2008, and specified in the existing Environmental Permit, are detailed below:

- **R13**: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where the waste is produced);
- **R3**: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes);
- **R4:** Recycling/reclamation of metals and metal compounds;
- **R5**: Recycling/reclamation of other inorganic materials;
- **D9**: Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are disposed of by an of the operations numbered D01 to D12;
- **D15**: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced);
- **D14**: Repackaging prior to submission to any of the operations numbers D1 to D13.

3. POTENTIAL NOISE SOURCES, MATERIALS AND PROCESSES

3.1. SOURCES OF NOISE

3.1.1. The potential sources of noise emissions from the site include:

- movement of transport vehicles into and out of site;
- mechanical equipment, which have the potential to give rise to a 'clatter' sound; and
- tipping of waste materials which can give rise to beeping during vehicle reversing, intermittent for 10-20 seconds as required for the health and safety of personnel.

4. POTENTIAL RECEPTORS

4.1. CONSIDERATIONS FOR IDENTIFYING SENSITIVE RECEPTORS

4.1.1. To determine the level of noise impact which may arise from the Installation, the sensitivity of the receiving environment and potential receptors must be considered.

4.1.2. The degree of sensitivity in a particular location is based on the characteristics of the land use, including the time of day and the reason why people are at the particular location (e.g. for work, recreation or residence).

4.1.3. Another factor which influences noise emissions is the distance from the noise source - the closer the receptor is to the source, the higher the noise emissions will be at that location.

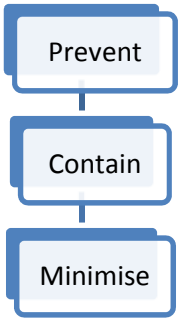
4.1.4. A summary of the immediate environmental setting is provided in Table 1. Potential sensitive receptors within a 1km radius of the Environmental Permit ("EP") boundary are shown on the Sensitive Receptors Plan (Drawing Reference ECL.041.01.01-03) contained within Section 8 of this variation application submission. It can be seen that the nearest receptors are local residents and also workers at the adjacent industrial sites.

5. OPERATIONAL AND PROCESS CONTROLS

5.1. NOISE MANAGEMENT STRATEGY

5.1.1. Attero's NMP strategy is to minimise any releases through good working practices and the use of suitable process control measures, which represent Best Available Techniques ("BAT"). A strategy based on the hierarchical structure shown in Figure 1 will be used at the Installation.

Figure 1: NMP Strategy



5.2. NOISE CONTROL MEASURES

5.2.1. The following general management techniques are employed at the Installation:

- staff will be suitably trained in the conditions of the permit and EMS; and
- the site will be managed in accordance with an EMS which is reviewed regularly to ensure it remains appropriate and up to date.

5.2.2. Table 3 details the environmental risk assessment undertaken for potential fugitive emissions to air from odour arising from the Installation. It can be observed that the control measures implemented reduce the overall risk to low to medium.

Table 3: NMP Risk Assessment and Control Measures

Potential Source or Pathway	Identified Receptor(s)	Pathway	Control Measures	Probability of Exposure	Consequence	Overall Risk
Vehicle movements- beeping from reversing	Human population in surrounding area	Site is close enough to receptors for noise to be potentially audible	Site vehicles will be kept to a minimum with all vehicles limited to 5 mph on site. A vehicle route has been designed to reduce the need for vehicular movements on site and hence will reduce the intermittent beeping generated during reversing manoeuvres as required for the health and safety of all workers.	Medium. Control measures should prevent any noise or vibration nuisance from reaching the identified receptors.	Noise or vibration nuisance	Low
Main operations and processing activities – bulking, baling, magnetic separator activities	Human population in surrounding area	Site is close enough to receptors for noise to be potentially audible	All operations and processing activities are located within designated areas of the site and will take place whenever possible inside the existing building and proposed new building to reduce any noise and vibration emissions which may reach sensitive receptors. In addition, a noise attenuation block wall has been proposed as part of the site extension and development, the approximate location is shown on the Site Layout Plan, Drawing ECL.041.01.01-002. Operating hours will be governed by the site's planning permission. Operational hours within the buildings will be 24 hours (365 days per year). External operations 07.00 to 20.00 Monday to Friday and 07.00 to 13.00 Saturday with no operations taking place on Sundays or public bank holidays. All site plant and equipment will be covered by the Planned Preventative Maintenance Regime ("PPMR") contained within the EMS to ensure adequate maintenance of any parts of the plant or equipment whose deterioration may give rise to increases in noise. A site inspection will be undertaken daily by the Site Manager and/or deputy, monitoring and recording anyactivities that could give rise to noise outside the Installation boundary. This will be recorded on the Daily Site Monitoring Check Sheet, an example of which is provided in Appendix I. All personnel will be trained in noise management and the prompt reporting of any abnormal noise so that it can be rectified.	Medium. Control measures should prevent any noise or vibration nuisance from reaching the identified receptors.	Noise or vibration nuisance	Low

Table 3: NMP Risk Assessment and Control Measures(Cont.)

Potential Source or Pathway	Identified Receptor(s)	Pathway	Control Measures	Probability of Exposure	Consequence	Overall Risk
Tipping of waste material	Human population in surrounding area	Site is close enough to receptors for noise to be potentially audible	Any tipping activity will be supervised by an Attero competent person with drop heights controlled during all tipping of waste materials to reduce the generation of noise. Material will only be offloaded in the dedicated tipping areas to reduce any noise and vibration emissions which may reach sensitive receptors.	Medium. Control measures should prevent any noise or vibration nuisance from reaching the identified receptors.	Noise or vibration nuisance	Low

6. COMPLAINTS

6.1. RESPONSE TO COMPLAINTS

6.1.1. If a noise complaint is received at the Installation, the incident will be fully investigated which may include the following:

- undertaking a site inspection to establish whether any noise can be observed at the present time;
- viewing Closed Circuit Television ("CCTV") footage to determine if tipping, waste processing or vehicle movements were occurring at the time to try and establish the potential origin of the noise;
- speaking with operators on site at the time of the event who may be able to provide further information regarding the occurrence or the noise;
- reviewing the daily site monitoring check sheet to confirm checks have been completed and to note whether any abnormal activities or observations were recorded; and
- discussions with operators to establish any changes to normal operating conditions.

6.1.2. Corrective and preventative measures will be implemented if the complaint is substantiated and followed up if deemed necessary.

6.2. RECORDS

6.2.1. NMP records are kept in accordance with the procedures established as part of the EMS.

6.2.2. The type of information that will be recorded relates to:

- sensitive receptors in particular the type of receptors, location relative to the odour sources and an assessment of the impact of noise emissions on the receptors;
- an overview of any complaints received, what they relate to (source/operation) and any remedial action taken;
- the types and source of noise emissions used or generated, release points and monitoring undertaken;
- a description of the indicative BAT requirements being considered; and
- identification of any circumstances or conditions, which compromise the ability to prevent or minimise odour annoyance, and a description of the actions that will be taken to minimise the impact.

6.2.3. Any external/internal non-conformances raised against the requirements of the Environmental Permit or other relevant legislation, are recorded and followed up by the Site Manager, as appropriate, to address the concern identified and to prevent occurrence or re-occurrence. These records are reviewed as part of Management Review meetings.

7. NMP REVIEW

7.1 The continuing effectiveness of the NMP will be reviewed annually by the Site Manager for the site.

7.2. The reviews will take into account compliance records, complaints history, site records and any recent sensitive developments on neighbouring land. The plan will be amended as necessary, including any changes to the control measures.

APPENDIX I
DAILY SITE MONITORING CHECK SHEET

DAILY SITE MONITORING CHECK SHEET

ASPECT	COMMENTS	ACTION TAKEN	RESPONSIBLE PERSON
Meteorological Conditions			
Details of Operations			
Visual Observations			
Presence of Dust & Details of Suppression Systems In Place			
Presence of Odour			
Presence of Pests/Litter or Mud			
Presence of Noise and/or Vibration			
Any Other Comments:			

Name: _____ Signature:_____ Date:_____