

NOISE & VIBRATION MANAGEMENT PLAN (WESTWOOD)

1. Procedure Objectives

1.1. This management plan details the control measures in place and systems installed on site to demonstrate that emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

2. Scope

2.1. This plan is specific to the controls and equipment on site at the Westwood AD facility.

3. Health and Safety considerations

3.1. There are no significant Health and Safety considerations with this procedure.

4. Environmental considerations

4.1. As detailed in the plan.

5. Responsibility

5.1. As detailed in the procedure.

6. Definitions

6.1. CHP engines

Combined Heat and Power units installed on site to convert biogas into renewable electricity and heat.

6.2. Irrigation Pump

Used to distribute biofertiliser (PAS110 digestate) to the remote tank and/or offsite for application to land for agricultural benefit.

7. Associated Documents

7.1. All associated documents referred to in this procedure are underlined.

8. Noise & Vibration Management Plan

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What do you do that can harm and what could be harmed			Managing the risk	Assessing the risk		
Hazard	Receptor	Pathway	Risk Management	Probability of exposure	Consequence	What is the overall risk
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	What measures will you take to reduce the risk? If it occurs who is responsible	How likely is this contact and reasoning behind?	What is the harm that can be caused?	What is the risk that still remains? The balance of probability and consequence?
Noise from CHP engines	Local residents Local Amenities Wildlife	Air (wind dependent)	<p>A predominant noise source on site is the CHP engines, however these are situated within purpose built acoustic containers which are engineered to retain noise at source.</p> <p>The CHP engines are under full O&M contract with a third party specialist, any defects that are giving rise or have the potential to give rise to excessive noise shall be reported to the service provider, Clarke Engineer. The site manager is responsible for ensuring the service provider is notified as soon as practically possible and will record any remedial action taken on the <u>Daily Checks Procedures</u>.</p>	Unlikely – the nearest residential receptor is 640 metres from site; the bridleway is the nearest receptor which is still approximately 250 metres from site.	Public nuisance Detriment to amenities Wildlife disturbance	Low
Noise from the air ventilation and extraction systems	Local residents	Air	The new purpose designed and engineered ventilation and extraction systems will predominantly be	Unlikely.	Public nuisance	Low

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(Waste reception hall and screening room)	Local Amenities Wildlife		<p>contained within the waste reception building and the screening room.</p> <p>Ductwork lining the building and fans are acoustically treated and attenuated to control any noise break out from the building.</p> <p>The extraction fans will be acoustically enclosed.</p> <p>Noise from the exhaust air passing through the ducting will be attenuated by the media within the sealed carbon filter.</p> <p>The site manager is responsible for reporting and investigating any equipment which may be generating excessive noise. All machinery and equipment is subject to a routine</p>	The nearest residential receptor is 640 metres from site; the bridleway is the nearest receptor which is still approximately 250 metres from site.	Detriment to amenities Wildlife disturbance	

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			maintenance and is maintained in accordance with the manufacturers recommendations.			
Noise from the building (including reception hall) and secondary containment / process tank area	Local residents Local Amenities Wildlife	Air	<p>The waste reception building is constructed from a concrete base with steel framework. The building is fully sealed to mitigate against noise.</p> <p>All processing operations only takes place within the building when the doors are closed. All front end plant and equipment including both hammermills enclosed and are contained within the building.</p> <p>All plant and equipment will be switched off when not in operation.</p> <p>All plant and equipment will be maintained/serviced in accordance</p>	Unlikely due to control measures in place and the nearest residential receptor is 640 metres from site.	Public nuisance Detriment to amenities	Low

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			<p>with the manufacturers recommendations to include to avoid unnecessary noise generation.</p> <p>All process and storage tanks are located within a landscaped and planted clay lined earth bund which will have noise attenuation properties.</p> <p>The site manager is responsible for ensuring the fast acting roller shutter doors and pedestrian doors remain closed during processing within the building. The Site Manager is also responsible for ensuring plant and equipment is maintained and serviced to minimise any potential for noise.</p>			

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Noise from irrigation pump	Local residents Local Amenities Wildlife	Air	The noise from the irrigation pump to pump PAS110 digestate to land is minimal. The surrounding landscaped and vegetated clay lined earth bund provides effective noise attenuation.	Unlikely due to distances involved and minimal noise generation. The pump will mainly be used during spreading operations which is typically two periods throughout the year. Anti-social hours are avoided.	Public nuisance Detriment to amenities Wildlife disturbance	Low
Noise from traffic and vehicle movements	Local residents Local Amenities Wildlife	Air	Site speed management restrictions in place. Traffic management is incorporated into the site induction. Site to operate in strict accordance with the new waste acceptance and processing hours as per the planning permission.	Unlikely.	Public nuisance Detriment to amenities Wildlife disturbance	Low

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			The maximum number of vehicle movements as specified in the planning permission will be adhered to at all times.			
Noise from gas to grid infrastructure	Local residents Local Amenities Wildlife	Air	All new gas to grid infrastructure including the BUP and GEU will be within their own enclosures which will provide noise attenuation. The new infrastructure will be designed and engineered specifically for site in accordance with industry best practice and will be maintained in accordance with the manufacturers recommendations. All new infrastructure will be positioned within the surrounding landscaped clay lined earth bund.	Unlikely due to the control measures in place and the closest residential receptor being approximately 640 metres from site.	Public nuisance Detriment to amenities Wildlife disturbance	Low

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