

# ENVIROARM LIMITED

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## WOODCOTE WOOD QUARRY LANDFILL SITE

### NOISE MANAGEMENT PLAN



**REF: NM/WWQ/NRS/1.00/2023**

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# **WOODCOTE WOOD QUARRY LANDFILL**

## **INERT LANDFILL AND NON-HAZARDOUS TREATMENT**

### **NOISE AND VIBRATION MANAGEMENT PLAN**

#### **1. Fixed/Mobile Sources**

- 1.1 There is no fixed plant currently proposed to be used on site, with the exception of the washing plant which is electric powered and all proposed plant will be mobile and operated in accordance with manufacturers operating and servicing requirements.
- 1.2 Mobile plant and equipment to be deployed at the site will include a track types excavators (CAT D6T) hydraulic excavators (CAT 300, CAT 322,) dump trucks (Volvo A30's, CAT 300's), and tractor and bowser and loading shovels (CAT 960G), track type dozer (CAT D6) and roadsweeper for normal daily use.
- 1.3 Only proprietary plant and equipment of reputable manufacture and supply are to be deployed and used at the site. Such plant and equipment will be fitted with appropriate silencers and/or acoustic deadening panels, insulation, etc. where required by Regulations. All plant will be fitted with non-intrusive warbler reversing or white noise systems to minimise noise beyond the boundary.
- 1.4 The Company expects and requires its management, staff and site operatives diligently to ensure that manufacturers' instructions for routine maintenance and operation of such equipment are carried out so as to control noise emissions to the practicable minimum.
- 1.5 This diligence is to extend to effective supervision of any Contractors employed to operate any such plant and equipment or to carry out maintenance and repair.
- 1.6 In instances where noise and/or vibration nuisance become noticeable and unacceptable, equipment is to be replaced and withdrawn from service without unjustifiable delay.

- 1.7 If repairs are ultimately effective, the equipment can be put back into service. If emissions remain unacceptable even after repair, the equipment is not to be used on site again.

## **2. Operational Sources**

- 2.1 Vehicles delivering wastes to the site will produce noise and vibrations during their travel to/from the site and manoeuvring at the site itself.
- 2.2 Site yard surfaces are to be constructed using concrete and to help reduce rumble/tail gate slap by maintaining a surface free of potholes as far as is reasonably practicable.
- 2.3 There is to be imposed a speed limit of 10 miles per hour and appropriate signage is to be displayed by way of instructions to site users.
- 2.4 There is a risk of noise and vibration when vehicles are discharging their loads in the tipping bays. Site operations noise is to be minimised by requiring good operational practice by drivers (or example, avoiding banging open doors, shutters, etc. on vehicle/container bodies) and arranging tipping into the enclosed bays.
- 2.5 There is a residual risk that, despite the avoidance and prevention measures described previously, there may still be noise and/or vibration evident from site operations. It will be a subjective judgment of the site manager as to whether or not such noise/vibration is liable to become a nuisance to others.
- 2.6 If there is a real risk of such a nuisance to others, the site manager is to close the site to those operations that are giving rise to the nuisance without unjustifiable delay. In reaching this decision, the wind speed and direction are to be taken into account together with the location and proximity of the nearest sensitive receptors.

## **3. Noise Mitigation Measures**

- 3.1 Noise mitigation measures to be employed on site will include the construction of a noise attenuation bund around the site constructed in a phased and progressive manner. In addition the outer face of the bunds will be tree planted to add further soft attenuation properties to the bund, see Noise Risk Assessment.
- 3.2 Temporary noise bunds will be constructed in advance of lifts once landfilling has reached the crest of the void and will be constructed in advance of each lift generally constructed at 4 metres in height to allow for hard attenuation of landfill plant and vehicles travelling and tipping behind the bunds.

3.4 Other mitigation measures include staggering of plant operations so that large numbers of heavy plant are not running at the same time in noise sensitive areas, thus limiting operational plant on the landfill or during cell construction. Machines should not be left idling near to noise sensitive properties and all maintenance and servicing will be carried out in the servicing bay area.

#### **4. Noise Monitoring**

4.1 On the basis of past experience at similar types of facility, the disposition of the site itself with respect to sensitive receptors, bi-annual monitoring of noise shall be taken from the nearest noise sensitive property to ensure that noise levels do not exceed 55dB LAeq (1 hour) (Freefield). The noise monitoring locations NM1, NM2, NM3, NM4, and NM6 have been based on the Noise Assessment and are shown on Drawing ESSD 12. Noise monitoring will be carried out on a quarterly basis at each noise sensitive property.

4.2 The Company expects and requires its management, staff and site operatives to be vigilant in monitoring for and assessing the potential of off-site nuisance from noise and/or vibrations and to take appropriate remedial and corrective action without unjustifiable delay. Such visual assessment for noise/vibration is to be undertaken at least on a working daily basis.

4.3 All such assessments and instances of remedial and corrective action are to be recorded in writing in the site diary.

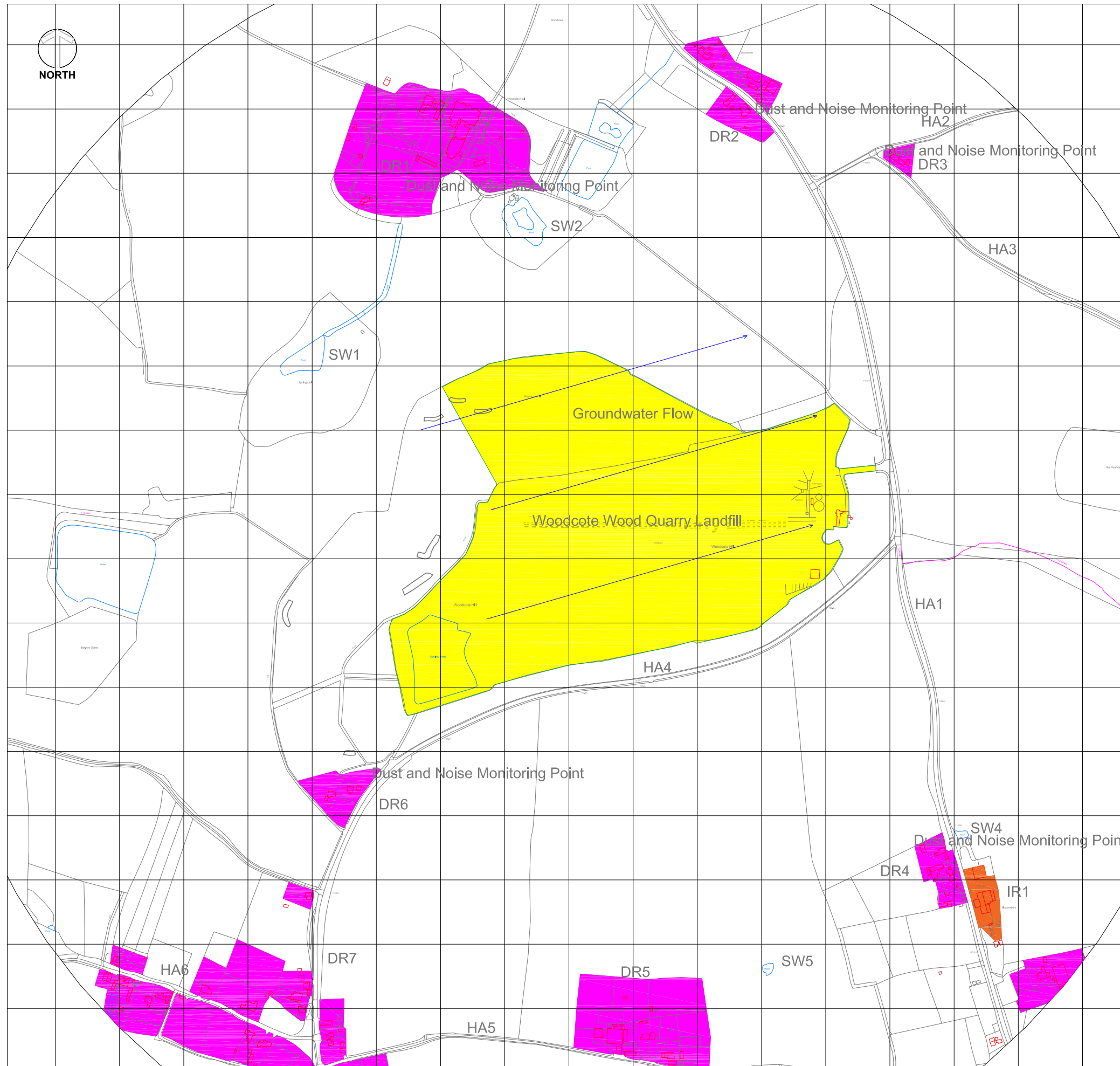
4.4 Should a particular problem arise or persist, noise and/or vibration monitoring equipment will be deployed at the site in accordance with a programme to be submitted for approval to the Planning Authority. Results will be recorded for assessment and action.

4.5 In the event of any complaint about noise and/or vibrations either at or leaving the site, the details of the complaint are to be recorded in writing, the basis for the complaint is to be investigated and, if deemed to be justified, appropriate remedial action is to be taken to mitigate the complaint. The results of the action are to be noted and their effectiveness assessed and recorded.

#### **Noise Management**

Woodcote Hall	47LAeq (1hr)
Brandon House	49LAeq (1hr)
1 Chadwell Lane	50LAeq (1hr)
88 Bloomsbury	46LAeq (1hr)
Pine Ridge	49LAeq (1hr)

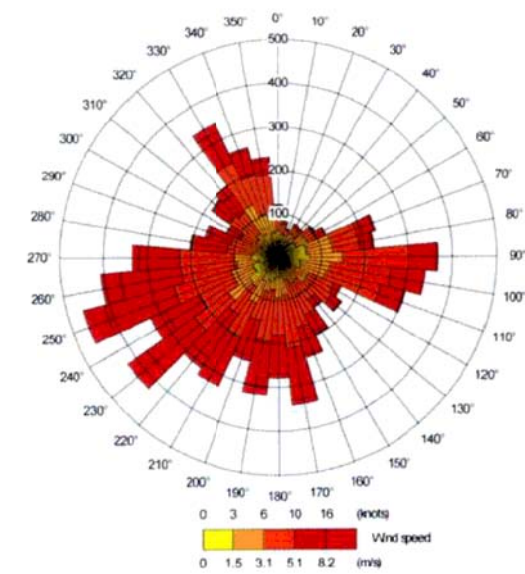
# **DRAWINGS**



**Legend**

Permit Boundary

**Wind Rose**



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Client: **NRS Woodcote Aggregates Limited**

Project: **Woodcote Wood Quarry Landfill**

Title: **Source Pathway Receptor**

CAD Ref: EL/WQL/1	Version: 1	Drawn by: ARM	Scale: Plan 1:2500@A3	Date: March 2023
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**ENVIROARM LIMITED**

Drawing:  
**ESSD 12**





**Legend**  
 — Permit Boundary

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Client: **NRS Woodcote Aggregates Limited**

Project: **Woodcote Wood Quarry Landfill**

Title: **Infrastructure**

CAD Ref: EL/WQL/1	Version: 1	Drawn by: ARM	Scale: Plan 1:2500@A3	Date: March 2023
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Drawing: **ESSD 13**

  
**ENVIROARM LIMITED**



**Legend**

— Permit Boundary

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Client: **NRS Woodcote Aggregates Limited**

Project: **Woodcote Wood Quarry Landfill**

Title: **Infrastructure**

CAD Ref: EL/WQL/1	Version: 1	Drawn by: ARM	Scale: Plan 1:2500@A3	Date: March 2023
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Drawing: **ESSD 13**

  
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