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BRIDGE STREET NORTH NOISE MANAGEMENT PLAN (NMP)

BRIDGE STREET NORTH NOISE MANAGEMENT PLAN

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1. INTRODUCTION

This Noise Management Plan (NMP) outlines the methods by which Dunton Technologies Limited (“Dunton”) will assess and minimise the potential impacts of noise generated through the operation of the Bridge Street North site.

The operator proposes to undertake the storage and treatment of hazardous soils via physico-chemical treatment and bioremediation. The plan addresses the impacts of the resultant noise and includes the specific control measures required to mitigate the potential noise impacts associated with the operation of the site.

This document forms part of the site’s Integrated Management System (IMS) and will be reviewed on an annual basis and in the event of any noise-related incidents/complaints.

1.1 Sensitive Receptors

A receptor is defined as something that could be adversely affected by a pollutant. Based on desk-based research, information provided by the client and the information relating to its environmental setting (provided in the Site Condition Report, ref. 1620013520-002 Bridge Street North_SCR) Ramboll has identified the receptors within the vicinity of the site. The noise sensitive receptors considered in this assessment are provided in Table 1.1:

Table 1.1: Summary of identified receptors.

Location	Description	Approx. distance from site boundary at closest point
R1	Houses on Evered Close, Surrey Close, Hidden Lock, Whitehouse Drive etc.	90m
R2	Houses on Bridge Street South	125m
R3	Permanent canal moorings	55m

Table 1 – Nearest noise sensitive receptors

2. OPERATIONS AT BRIDGE STREET NORTH

The site is located approximately 4.6 km north-west of Birmingham city centre and is centred at approximate National Grid Reference (NGR) 490539, 276119. The permit boundary is provided in Appendix 1 of this document.

The standard Operating Hours for the facility are:

- Monday – Friday 07:30 – 17:00; and
- Saturday 08:00 to 13:30.

The site will not undertake operations (including waste reception) on Sundays or Public Holidays. Wastes will be accepted onto site from 08:00 up to 30 minutes prior to the site closing. Processing will continue until the end of the working day.

During times where the site is closed or not in operation, the site will be locked and secured to prevent unauthorised vehicular and/or pedestrian access.

The general layout of the Dunton Smethwick site is shown in Figure 1.

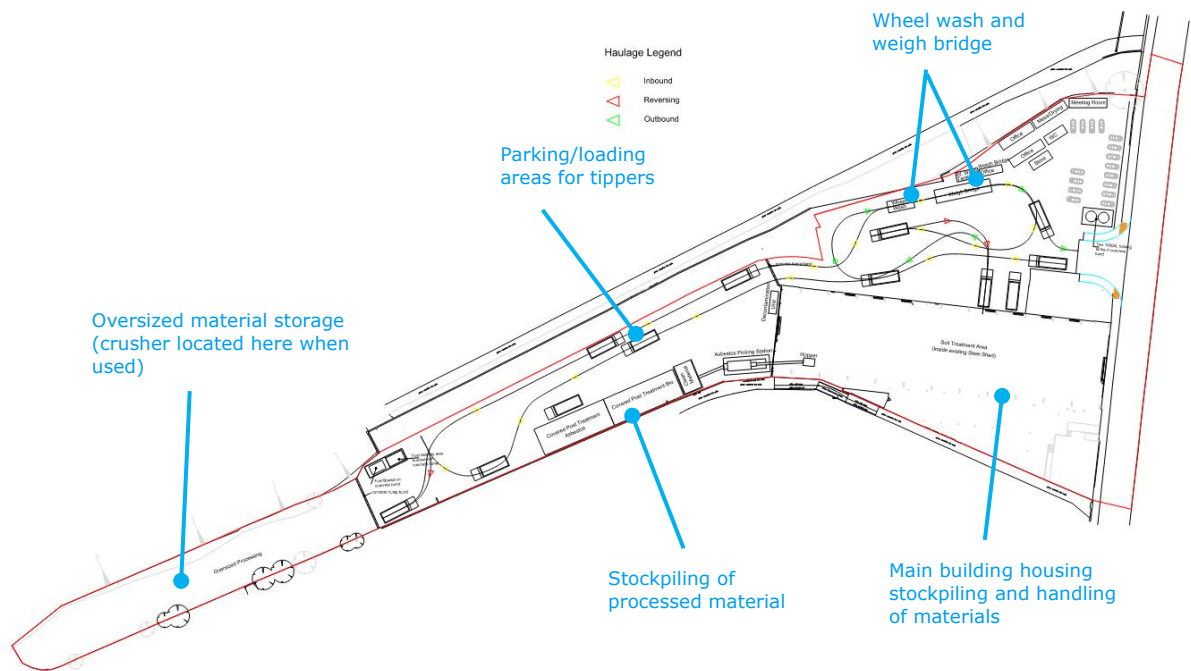


Figure 1 – General layout of proposed facility

2.1 Waste Deliveries to Bridge Street North

The waste will be brought to the site via HGV delivery vehicles. Waste materials will be offloaded into a delivery bay that is located within the main building. Waste materials will be stored in dedicated waste storage bays within the building prior to treatment.

The site is accessed via Bridge Street North to the east of the site. The immediate surroundings of the site largely comprise an industrial setting with the nearest residential dwelling located approximately 90m north-east of the site.

The site consists of designated waste reception and storage areas, including a weighbridge for incoming wastes and a separate quarantine area, as well as treatment areas for asbestos and hydrocarbon contaminated wastes. Wastes will be stored and treated inside a building.

2.2 Overview of Facility Operations

The basic steps of the process at the facility during normal operation are:

- Delivery of materials (typically by 32t tipper)
- Moving of material on site by wheeled loader/tracked excavator
- Tipping of material into a hopper and movement by conveyor to an enclosed hand-picking station (for asbestos removal etc).
- Loading material by wheeled loader/excavator into tippers for delivery
- HGV movements and wheel wash

Much of the processing of materials will take place inside the main warehouse building at Bridge Street North. This includes unloading of lorries and moving material by wheeled loader as well as loading the hopper and conveyor which would take material to the separate hand-picking building.

2.3 Non-Typical Operation

In addition, there may be occasional use of other machinery on the site for short periods which are not part of the primary operation of the site. This includes use of a hired mobile crusher for crushing oversized pieces. This would be used at the western end of the site where oversized materials are stored. This may be required approximately every 2 months and operate for 2/3 hours per day.

There may also be occasional use of a mobile screen but similarly this is not part of the primary operation of the site and would be occasional use only. A screen could be located within the building on site if required. It is likely to be lower in noise than use of a crusher.

3. WIND SPEED AND DIRECTION

3.1 Wind Speed and Direction

In many cases there is an inter-relationship between this risk assessment and meteorological conditions, where relevant this has been identified in the risk assessment presented in Table 5.1. The pathway is determined by the location of the receptor relative to the site, the distance from the site boundary (m) and the frequency (likelihood) the prevailing wind will blow in the direction of the receptor as determined by historical wind rose data at Birmingham (2019) (www.windfinder.net) as illustrated in Figure 2.

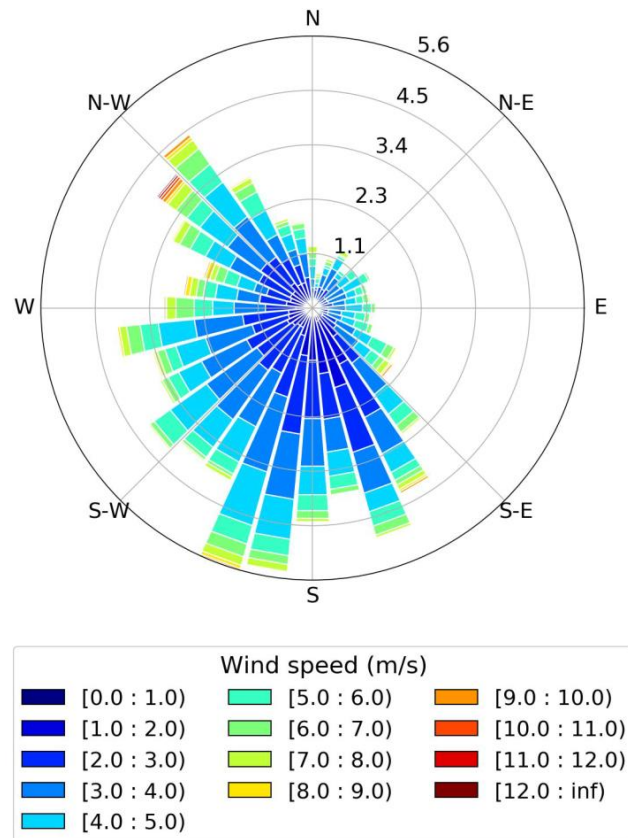


Figure 2: Wind rose (Birmingham, 2019).

It can be seen from the wind rose that the prevailing wind is from the SSW.

The prevailing wind is in the direction of the closest dwellings, and this has been taken into consideration in the development of the noise risk assessment and plan presented in Table 5.1.

4. GUIDELINES FOR MANAGEMENT OF NOISE

The Operator has adopted various control measures as outlined within Agency Guidance 5.06 – Treatment of Hazardous and Non-Hazardous Wastes and within Horizontal Guidance Note H3 Part 2. The relevant control measures for this facility are as follows:

- Operating within restricted daytime hours;
- Minimisation of drop heights to avoid 'dropping' waste onto the ground;
- Taking care when material is loaded and offloaded to and from trucks;
- Siting of equipment that is likely to cause noise at the furthest point from sensitive receptors, i.e. digger movement, wheel washing facilities;
- Regular maintenance of site roads and site surfaces (avoiding noise generated by 'bumpy' site surfaces);
- Regular maintenance of all plant and equipment;
- Regular housekeeping; and

- Use of correctly specified plant, i.e. using appropriately sized plant and equipment.

5. RISK ASSESSMENT AND MANAGEMENT PLAN

A noise risk assessment and management plan has been developed to determine the potential impact of noise from site operations on sensitive receptors. The outcome of the assessment is presented in Table 5.1.

Table 5.1: Noise Emissions Risk Assessment and Management Plan

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequences	Overall Risk
<p>Loading and unloading operations from delivery trucks (with soil / aggregate).</p>	<p>Site Workers</p> <p>Occupiers of Domestic dwellings listed in Table 1.1.</p> <p>Users of the Birmingham Canal.</p> <p>Industrial and commercial premises listed in Table 1.1.</p>	<p>Atmosphere</p>	<p>Deliveries are only received during normal working (daylight) hours. The working hours are between 07:30 and 17:00 Monday to Friday and 08:00 and 13:30 Saturday.</p> <p>No operations or activities will take place at any time on Sundays, Bank Holidays, National Holidays, Public Holidays or during the evening/night time.</p> <p>Vehicle drivers will adhere to the designated speed limits for the site and the site access road – the designated speed limit for this site is 10 mph.</p> <p>Deliveries are timed so that vehicles will not 'back up' waiting to get onto the site.</p> <p>A no idling policy will be enforced on-site and vehicle users will be required to switch off their engines when not in use.</p> <p>The site has been designed so that vehicles delivering and removing waste will either not have to reverse, or the reversing will be kept to an absolute minimum.</p> <p>All vehicles will undergo a regular schedule of maintenance and checks to ensure they are in good working order.</p> <p>The site manager will be responsible for overseeing all vehicles utilised on site. If noise levels are deemed unacceptable, a review of site operating procedures and locations of plant may be undertaken.</p>	<p>Intermittent during operating hours.</p>	<p>Intermittent noise and vibration disturbance.</p>	<p>Not significant due to the management controls employed.</p>
<p>Movement of stock to and from storage areas.</p>	<p>Site Workers</p> <p>Occupiers of Domestic dwellings listed in Table 1.1.</p>	<p>Atmosphere</p>	<p>Movement of stock will be directly to the side of the building to limit noise. Stock will then be moved inside the building to designated storage areas.</p>	<p>Intermittent during operating hours.</p>	<p>Intermittent noise and vibration disturbance.</p>	<p>Not significant due to the management controls employed.</p>

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequences	Overall Risk
	Users of the Birmingham Canal. Industrial and commercial premises listed in Table 1.1.		All vehicles will undergo a regular schedule of maintenance and checks to ensure they are in good working order. The site manager will be responsible for overseeing all vehicles utilised on site. If noise levels are deemed unacceptable, a review of site operating procedures and locations of plant may be undertaken.			
Loading and unloading of waste.	Site Workers Occupiers of Domestic dwellings listed in Table 1.1. Users of the Birmingham Canal. Industrial and commercial premises listed in Table 1.1.	Atmosphere	Waste will not be moved around the site on Sundays or evening/nights or during public holidays. Storage areas are located inside a building to minimise noise. The types of wastes to be accepted will have inherently low noise handling potential as they are not concrete, metal or wood wastes which will clang on the ground when handled. All waste will be handled with care when being loaded or unloaded. Drop heights will be minimised to reduce the impact of waste hitting site or vehicle surfaces and care will be taken to ensure any manual handling i.e. use of spades does not lead to noise from these implements. The site manager will be responsible for overseeing all vehicles utilised on site. If loading and unloading of waste does lead to unacceptable noise, the operator may investigate additional noise control measures, for example, muffle mats on in the reception areas and rubber edges on spades.	Intermittent during operating hours.	Intermittent noise and vibration disturbance.	Not significant due to the management controls employed.
Treatment of waste.	Site Workers	Atmosphere	Bioremediation will only take place inside a building, resulting in minimal noise generation. The waste will be delivered to biopads located	Intermittent during operating hours.	Intermittent noise and vibration disturbance.	Not significant due to the management controls employed.

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequences	Overall Risk
	<p>Occupiers of Domestic dwellings listed in Table 1.1.</p> <p>Users of the Birmingham Canal.</p> <p>Industrial and commercial premises listed in Table 1.1.</p>		<p>inside the building. Movement of waste will only take place during normal business hours.</p> <p>The asbestos picking station will be completely enclosed which will provide noise attenuation.</p> <p>Soils will be dampened using a pressure washer, however this will be conducted inside the building to reduce noise.</p> <p>The operator will ensure drop heights are minimised while handling material within the treatment pad.</p> <p>The site manager or duty manager will be responsible for the implementation of noise control measures.</p>			
<p>Conveyor, Hopper and Spray Bar Systems</p>	<p>Site Workers</p> <p>Occupiers of Domestic dwellings listed in Table 1.1.</p> <p>Users of the Birmingham Canal.</p> <p>Industrial and commercial premises listed in Table 1.1.</p>	<p>Atmosphere</p>	<p>The hopper is located inside a building which will provide noise attenuation and transfers to the hopper will only take place during normal working hours, i.e. between 07:30 – 17:00 Monday to Friday and 08:00 – 13:30 on Saturdays. No activities involving the hopper will occur out of normal working hours or on Sundays or public holidays. The hopper will not be in continual use so noise from this piece of equipment will be intermittent.</p> <p>Drop heights will be minimised to reduce the impact of waste hitting surfaces.</p> <p>Conveyor belts will be enclosed and will be subject to regular maintenance checks (at least weekly).</p> <p>All staff will be vigilant with regards to equipment that produces abnormal levels of noise and will report any abnormal events to the site manager who will determine if the plant</p>	<p>Intermittent during operating hours.</p>	<p>Intermittent noise and vibration disturbance.</p>	<p>Not significant due to the management controls employed.</p>

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequences	Overall Risk
			<p>need to be taken out of circulation until the issue has been resolved.</p> <p>Spray bars will be regularly cleaned and will undergo a schedule of maintenance to ensure that they remain unclogged.</p> <p>All plant on site is subject to regular maintenance and any repairs are undertaken as soon as is practicable. As a minimum all site equipment is checked weekly to ensure that it is in good working order.</p> <p>If noise levels are deemed unacceptable, a review of site operating procedures and locations of plant may be undertaken.</p> <p>The site manager or shift supervisor will be responsible for ensuring that noise from site equipment is kept to a minimum.</p>			
<p>Wheel and Vehicle Washing Facilities</p>	<p>Site Workers</p> <p>Occupiers of Domestic dwellings listed in Table 1.1.</p> <p>Users of the Birmingham Canal.</p>	<p>Atmosphere</p>	<p>Wheel washing and vehicle washing activities will not be in continual use so noise from this piece of equipment will be intermittent.</p> <p>The wheel washing facilities will only be used between the hours of 07:30 – 17:00 Monday to Friday and 08:00 – 13:30 on Saturdays.</p> <p>Vehicle washing facilities will only be used between the hours of 07:30 – 17:00 Monday to Friday and 08:00 – 13:30 on Saturdays. The location of the vehicle washout area has been located so that it is as far as possible from sensitive receptors.</p> <p>The site manager or shift supervisor will be responsible for ensuring that noise from site equipment is kept to a minimum.</p>	<p>Intermittent during operating hours</p>	<p>Noise and vibration disturbance</p>	<p>Not significant due to the management controls employed.</p>

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequences	Overall Risk
			If noise levels from these activities are deemed unacceptable, the site manager may undertake a review of site operating procedures and locations of operating plant.			
Abatement systems.	Site Workers Occupiers of Domestic dwellings listed in Table 1.1. Users of the Birmingham Canal.	Atmosphere	Abatement systems such as HEPA filters and fans will operate on a 24/7 basis to control emissions to air; however, they will be located inside a building to minimise noise. If noise from the abatement systems is deemed unacceptable (as per a substantiated complaint from local residents), the operator will review noise control techniques for the storage of the pumps and may investigate the need for soundproofing of the equipment.	Constant during operating hours	Noise and vibration disturbance	Not significant due to the management controls employed.
Poorly maintained plant and equipment.	Site Workers Occupiers of Domestic dwellings listed in Table 1.1. Users of the Birmingham Canal.	Atmosphere	All plant and equipment are inspected on a regular basis (weekly) and any repairs required are carried out as soon as is practicable. All site workers are required to report any breakdowns or malfunctioning equipment immediately to the site manager. All such incidences will be reported in the daily log. The site manager or duty manager will be responsible for determining if plant and equipment should be removed from circulation until such times as repairs have been made. The site manager or duty manager will be responsible for determining various activities on site should cease immediately upon report of malfunctioning equipment.	Intermittent during operating hours.	Intermittent noise and vibration disturbance.	Not significant due to the management controls employed.
Poorly maintained site roads and site surfaces.	Site Workers Occupiers of Domestic dwellings listed in Table 1.1.	Atmosphere	The site is accessed via Bridge Street North for both incoming vehicles and staff. Vehicle drivers will adhere to the designated speed limits for the site and the site access road	Intermittent during operating hours.	Intermittent noise and vibration disturbance.	Not significant due to the management controls employed.

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequences	Overall Risk
	Users of the Birmingham Canal.		<p>- the designated speed limit for this site is 10 mph.</p> <p>Vehicle movements (other than deliveries) will be carried out in the building to minimise noise.</p> <p>Any deficiencies regarding site will be reported immediately to the site manager or duty manager who will arrange for appropriate repairs to be made.</p> <p>The site will undertake regular housekeeping with the waste processing area and the site road surfaces being swept at the end of each day and inspected for potholes or cracks which could compromise vehicle movements. This allows site staff to inspect all surfaces on a daily basis and to remove any items of material that might impede vehicle movements.</p>			

6. MONITORING AND CORRECTIVE ACTIONS

6.1 Noise Monitoring

Noise monitoring will be conducted at the site boundary, and proposed monitoring locations are shown in Appendix 1. This will be subjective noise monitoring, carried out by site operators on a daily basis. If the levels are significant or substantiated complaints are received, site management techniques may be reviewed and noise monitoring off-site may be undertaken.

6.2 Maintenance Procedures

A planned preventative maintenance programme (PPM) will be established. Plant and equipment will be inspected and serviced in line with manufacturers recommendations. Dust abatement systems (such as HEPA filters) will be included in the routine maintenance programme, and critical spares will be maintained on site for dust and asbestos abatement equipment.

Details of faults, breakdowns and repairs will be documented and records will be maintained. Faults and breakdowns will be investigated and the service schedule revised if necessary.

7. REPORTING AND COMPLAINTS RESPONSE

Dunton has established procedures to record and investigate incidents and non-conformances which may affect the environmental performance of the facility.

Dunton's IMS requires that non-conformances are reported, investigated and rectified, and actions are implemented to prevent reoccurrence.

To assist in the reporting of incidences, Dunton will display a notice at or near the site entrance with the following information clearly visible:

- Company name;
- Permit number;
- Emergency contact name and the permit holders (i.e. Dunton Environmental Limited) telephone number;
- A statement that the site is permitted by the Environment Agency; and
- Environmental Agency national number (08708 506 506) and incident hotline number (0800 807060).

7.1 Reporting of Complaints

Dunton has established procedures for dealing with complaints, as outlined in Table 7.1 and Appendix 2.

Table 7.1: Outline of complaints procedure

Action	Person responsible for ensuring action is carried out	Timescale for action completion
The Site Manager will be notified of the complaint and will make the appropriate managerial staff and site operatives aware of the complaint. The complaint will be formally recorded using the Complaint Report sheet contained within the site's IMS (Appendix 2 of this NMP).	Site Manager	Within one working day of receipt of the complaint.
The complaint will be investigated by: a) Checking the Site Diary and Waste Acceptance Records to review site operations and conditions (e.g. number of deliveries). b) Checking the Site Diary to see whether the complaint corresponds to any operational issues at the site, such as damage or malfunction of noise management infrastructure. If established, the cause of the complaint will be recorded within the Complaint Record Sheet.	Site Manager	Within one working day of receipt of the complaint.
The Site Manager will instigate any necessary reviews of procedures and will implement any required changes. Any maintenance to noise management infrastructure will be undertaken as soon as possible	Site Manager	Maintenance and repair of noise management infrastructure will be undertaken as soon as possible. Review of procedures will be completed within seven working days of receipt of the complaint.
The complainant and the Environment Agency will be informed of any corrective actions taken.	Site Manager	As soon as possible. This may be up to seven working days from receipt of the complaint depending on the complexity of the issue and resolution measures required. The EA officer responsible for the site will be updated daily (working

		hours) during this period.
A follow up audit on the corrective actions will be undertaken to ensure the preventative procedure was effective and to determine if any additional actions are required.	Site Manager	Within two weeks of receipt of the compliant.
Once the follow up audit has been completed, the Site Manager will ensure that the complaint and any action taken, and the effectiveness of that action are recorded in the IMS. This record will also note any amendments to procedures, both environmental and health and safety, which may be required following the investigation. The record will be maintained.	Site Manager	Within two weeks of receipt of the compliant.

Dunton will also maintain a site diary which will track deliveries to and from the site, note any abnormal weather conditions, any incidences of dust, noise, odour, spills or discharges or any malfunction with regards to machinery. The daily log will also record all housekeeping activities.

8. SUMMARY

Bridge Street North Waste Treatment Facility, operated by Dunton Technologies Limited is located within a mix of industrial / commercial properties and within 1km of habitats and residential properties within Smethwick, Birmingham.

A noise management plan has been developed in order to assess the potential for impacts on sensitive receptors. The information contained within the assessment detailed in Table 5.1 indicates that site activities are unlikely to cause any disturbance to nearby sensitive receptors from the treatment techniques, storage and management techniques employed.

The proposed operations are unlikely to produce noise at a level that will cause nuisance outside the site boundary as defined by the Environment Agency. The operator will actively employ mitigation measures on site, such as working only within those hours stipulated within the planning permission, minimising drop heights, maintaining equipment and site infrastructure, maintaining site roads and surfaces and treating and storing waste inside a building.

Due to the above measures, it is concluded that it is highly unlikely receptors will be impacted by the proposal.

APPENDIX 1

LAYOUT AND MONITORING LOCATIONS

APPENDIX 2

COMPLAINTS PROCEDURE

Bridge Street North Waste Treatment Facility Complaints Procedure

In an attempt to simplify and improve our Company complaints procedure and to ensure that matters are dealt with correctly I would be obliged if you would with immediate effect follow the new process detailed below:

1. Complaint received by email

Please forward immediately to Dunton Technologies Limited.

2. Complaint received by phone

- a. Please forward immediately to Dunton Technologies Limited with the following information:
- i. Name of Company/Person making complaint
 - ii. Contact phone number of Company/Person making complaint
 - iii. Details of complaint (all relevant details)
 - iv. Site/Location details
 - v. Full postal address of Person making complaint if Non account customer
 - vi. Email address of Person making complaint

Please under no circumstances and without exception attempt to deal with the matter independently.









We take all complaints received from customers, members of the public, etc. very seriously, irrespective of how minor they may at first appear and it is vitally important for the company to deal with any such matters expediently and efficiently as possible.



Should you have any further questions with regard this matter then please do not hesitate to contact myself.

Dunton Technologies Limited

Complaints Procedure Part 2

In the event of a complaint being received from a member of the public or from the relevant Authority, the actions in the table below will be undertaken.

Actions	In the event of a complaint being received
Inform Site manager	
Check boundary and receptors for noise	
Review activities occurring on site including date, time, what loads have been delivered, wind direction and general site conditions	
Inform Environment Agency or Local Authority	
Trace source of the noise and remediate	
Review the current noise management techniques to determine if still appropriate	
Determine if additional measures need to be implemented (including reviewing site layout and storage arrangements)	
Report back to EA, LA or Complainant regarding what actions have been undertaken	

-  Compulsory Actions
-  If deemed necessary