

Wastege Waste Management Limited

H1 Accident and Amenity Risk Assessment

Application for a Bespoke Environmental Permit for a Waste Transfer Station

Gibson Lane South, Melton, Hull, East Riding of Yorkshire, HU14 3HN

Report Ref: CE-GL-1817-RP03-H1-Final v1



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Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk
Odour						
<p>Odour from waste delivery, off-loading, and deposit for waste recovery</p>	<p>Neighbouring businesses located adjacent to the Site and on the opposing side of Gibson Lane to the east in Melton Enterprise Park. These include Bayram Timber contiguous with the western boundary of the Site and M-AR off-site Construction Specialists c. 60m to the west, Melton Enterprise Park at c.240m to the north-east and Transwaste at c. 235m to the north.</p> <p>Employees of the sewage works c. 105m to the north and visitors and clients of the Water Ski Club at approximately 588m to the west of the Site.</p> <p>Residential properties located c. 825m north of the Site.</p>	<p>Air</p>	<p>The majority of the waste types accepted at the Site are not odorous. Those that have the potential to emit nuisance odours are stored in sealed drums or IBC`s and stored within the confines of the on-Site building. In the unlikely event that any malodorous loads are delivered uncontained to the Site, they will be directed to a suitably authorised facility.</p> <p>Should any significant odour be detected or odour complaints are received at the Site, these will be investigated and logged in accordance with the Environmental Management System (EMS). Mitigation measures will be implemented, as appropriate, to ensure a high level of control.</p> <p>It is important to note that the sewage works located north of the Site may generate more annoyance in terms of odour in the area and the hazard could be attributed to the Site.</p>	<p>Unlikely as any malodorous emissions would dissipate before reaching any residential receptors or the designated sites.</p> <p>It is considered that any odours generated from the Site will not impact features pertaining to designated sites (i.e. the Humber Estuary SSSI, SPA, SAC and RAMSAR), notably due to these being located upwind of the prevailing wind direction.</p>	<p>Odour annoyance to anyone living or working close to the Site.</p>	<p>Low</p>

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	<p>Two sections of the Humber Estuary designated as a SSSI at 221m to the south and 551m to the east of the Site. In addition, two sections of the Humber Estuary are classified as SPA`s which are located 221m to the south and 1877m to the east of the Site. The section of the Humber Estuary at 221m to the south is also a designated as a SAC.</p> <p>Melton Bottom Chalk Pit SSSI at 1736m to the south of the Site and two RAMSAR sites at 220m to the south and 1944m to the west of the Site.</p>					
Noise and Vibration						
Engine noise during waste deposit, loading and unloading including reversing beepers etc.	Receptors identified above	Noise via the atmosphere and vibration through the	Noise from mobile plant, machinery and vehicles will be attenuated by the bunds surrounding the Sites perimeter.	Unlikely due to the mitigation measures in place. Additionally, built-up	Noise nuisance to anyone living or working close to the Site.	Not significant as long as management procedures

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<p>Vehicle movements to and from the Site delivering waste.</p> <p>Vibration from deposit of waste.</p>		<p>ground.</p>	<p>To minimise noise emissions, all vehicles, plant and machinery operated at the Site will be maintained in accordance with the manufacturer's specification and fitted with effective silencers. Any breakdown or malfunction of silencing equipment will be treated as an emergency and dealt with immediately. Where a repair cannot be affected immediately the equipment will be taken out of service until the repair is made.</p> <p>The predominant noise source in the vicinity of the Site is traffic, machinery and plant associated with nearby industries and vehicles using the local road network serving the industrial units and Melton Enterprise Park.</p> <p>Routine maintenance of plant and equipment will be carried out in accordance with the manufacturer's recommendations and the Company's EMS to minimise noise emissions.</p> <p>The Site will only be operated during the hours specified in the planning permission for the site. No un-social or night time working will be carried out.</p> <p>Any complaints received at the Site about noise will be monitored and logged in accordance with the EMS. Mitigation</p>	<p>intervening habitats between the Site and the designated site's, it is considered that Noise and Vibration will not cause any significant impact</p>		<p>adhered to.</p>

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			measures will be implemented, as appropriate, to ensure a high level of control.			
Fugitive Emissions – Release to Air						
Dust from vehicles entering and leaving the Site, offloading of waste material and plant and machinery working on the Site including waste deposit (includes mud and debris being liberated out with the Site boundary).	Receptors identified above including intervening roads and lanes, particularly the access road Gibson Lane.	Transportation of mud and debris from the Site on the under carriage and wheels of vehicles exiting the Site or escape of wastes from the vehicle body. Windblown dust.	<p>Waste streams delivered to the Site are predominantly not inherently dusty and are stored internally.</p> <p>To minimise the generation and subsequent dispersal of dust, mud and debris around the Site, a number of control measures will be implemented including the following:</p> <p>All vehicles transferring materials to the Site and all on-Site mobile plant are limited to speed restrictions of ≤10 mph</p> <p>Failure to comply with Site instructions regarding the above will result in the driver being warned and they may risk exclusion from the Site until further notice.</p> <p>The Site entrance, access road and external yard area comprise engineered surfaces (vehicles do not drive over any unmade ground at the Site).</p> <p>A water bowser will be made available for dust suppression on the Site access road and operational areas, as required. The importance of dust suppression during periods of dry and dusty weather is recognised, particularly due to the proximity of the neighbouring farms and businesses.</p> <p>As part of its daily inspection regime, the Site will be visually inspected for the presence of fugitive emissions and mud and</p>	Unlikely due to the nature of the waste types, the construction of the Site and the abatement measures in place	<p>Fugitive dusts.</p> <p>Dust on window ledges, cars, etc.</p> <p>Mud and debris presence on public highway could cause skidding and loss of control.</p>	Fugitive dusts - not significant when managed by necessary mitigating measures and documented management systems.

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			debris. Any complaints received at the Site about dust, mud or debris will be monitored and logged in accordance with the EMS. Mitigation measures will be implemented, as appropriate, to ensure a high level of control.			
Fugitive Emissions – to Water						
Flood water and the contamination of the surrounding surface waters and groundwater	The nearest surface water body is the tributary Old Drain at c.83m to the north-east of the Site at its closest extent which flows into the River Humber to the south of the Site	Direct run-off from Site to adjacent, uncontained areas and percolation into soil and groundwater.	<p>All bulking up and storage activities takes place in an enclosed building with impermeable concrete floor. There are no drainage outlets within the building and no surface drains in the external area of the Site therefore no risk of any accidental spillage or leakage entering surface water drains. The external yard area of the Site is fully contained and is entirely covered by a bespoke canopy that extends from the building. As such, there is no surface run-off from the Site.</p> <p>The perimeter of the Site is bunded and a sleeping policeman installed along the entrance will prevent any leaks, spillages or run-off leaving the confines of the Site.</p>	Unlikely due to the on-site management measures and specifically the bunding surrounding the Site which provides containment of any surface water. A Flood Risk Assessment and Surface Water Drainage Strategy (ref: 231/02/wwfs/fra/1222) prepared to support the planning application concludes that the development is unlikely to have any adverse impact on surface water drainage, flood storage or flood flow conveyance and should therefore have no adverse effect on	Contamination to surface water bodies and the Humber Estuary designated SSSI/SAC/SPA/RAMSAR	Not considered significant.

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				flood risk at the Site or surrounding area. The development would incorporate a sustainable surface water drainage system (SuDS) that would restrict off-Site discharge to greenfield rates. In response to the assessment, the Lead Local Flood Authority (LLFA) and the Land Drainage Team (LDT) have no objections to the proposal.		
Pests						
Due to the nature of the waste materials accepted at the Site i.e. strictly inert waste, the risk from pests as a result of the operation of the proposed Site is considered insignificant and therefore this section has not been addressed further.						
Litter						
The risk of litter arising from the Site and polluting the surrounding environment is unlikely due to the nature of the proposed activities and the Permitted waste types being stored internally however Site inspections for the presence of material will be carried out on a regular basis and in the unlikely event of litter being found, litter pickers will be employed on Site to remove the material. The presence of litter within the deposited waste will be screened as part of the acceptance criteria.						
Mud						
See section relating to 'emissions' above.						
Leakage of potentially polluting liquids						

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Leak from any waste oil / diesel/liquors/chemical/solvent storage areas on Site	<p>Surface water courses, soils and groundwater.</p> <p>The nearest surface water course is the Old Drain which is c.83m north-east of the Site at the closest point. There is no drainage from the Site to the tributary or any other watercourse.</p>	Ground contamination to soils and underlying groundwater	<p>All containers are inspected thoroughly on acceptance and again once stored in the building to ensure any damage such as cracks or holes can be identified. Should any faults be found, the contents will be placed within an intact container and the deficient one isolated, labelled as faulty discarded as per all wastes removed from the Site.</p> <p>The entire Site including internal areas comprises of impermeable concrete and the boundary of the whole Site is bounded with a bund which will allow for any leaks or spillages to be contained.</p> <p>All on Site vehicles are routinely inspected to identify any leaks, which will be dealt with accordingly.</p> <p>Absorbent material, such as sand, will be kept on Site and used to treat any spillages of potentially polluting liquids. Designated Site staff are trained in the relevant spillage procedures on Site.</p> <p>Emergency spillage procedures at the Site form part of the EMS.</p>	Unlikely due to the on-site management measures.	Contamination of local watercourse and underlying groundwater	Not considered significant.
Fires						
Fire within the on-site plant and equipment and / or delivery vehicles	Neighbouring businesses located adjacent to the Site and on the opposing side of Gibson Lane to the east in Melton Enterprise Park. These include	Air transport of smoke. Spillages and contaminated firewater by direct run-off	All waste will be stored in accordance with HSG71 ' <i>Chemical Warehousing, The storage of packaged dangerous substances</i> ' and HSG51 ' <i>Storage of flammable liquids in containers</i> '.	Unlikely due to the fire fighting measures	Smoke, local nuisance, risk of fire spreading. Respiratory irritation, illness and nuisance to local population. Injury to staff, firefighters or	Not significant as long as management procedures adhered to.

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	<p>Bayram Timber contiguous with the western boundary of the Site and M-AR off-site Construction Specialists c. 60m to the west, Melton Enterprise Park at c.240m to the north-east and Transwaste at c. 235m to the north.</p> <p>Employees of the sewage works c. 105m to the north and visitors and clients of the Water Ski Club at approximately 588m to the west of the Site.</p> <p>Residential properties located c. 825m north of the Site.</p> <p>Two sections of the Humber Estuary designated as a SSSI at 221m to the south and 551m to the east of the Site. In addition, two sections of the Humber Estuary are classified as SPA`s which are located</p>	<p>from site and via surface water drains and ditches.</p>	<p>A detailed Fire and Mitigation Plan has been prepared for the Site as per the above HSE documentation; report reference: CE-GL-1817-RP05-FPMP</p> <p>On Site plant and equipment will be maintained on a regular basis to ensure it is working effectively to minimise the risk of fire. The facility will be secured outside of operational hours and an extensive CCTV system installed.</p> <p>Fire extinguishers are positioned in strategic locations across the Site and suitable staff are trained in the event of a fire to use the fire-fighting equipment available. If deemed necessary the fire brigade will be contacted and the Environment Agency informed.</p> <p>In the event of a fire within the on Site plant and equipment, the Site staff will ensure the machine is switched off and if possible, without risk to personal safety, fight the fire using the firefighting equipment available. In the event the fire is too big or out of control the fire brigade will be informed and the local area evacuated.</p> <p>Site staff are trained in the event of a fire and made aware of the location of all firefighting equipment and procedures.</p>		<p>arsonists/vandals. Pollution of waters and soils</p>	

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Other Accidents						
Waste material loss from delivery vehicle	As above and the local road network	Air, land	<p>Waste delivery vehicles should be netted, sheeted or enclosed, as appropriate, to prevent any inadvertent waste escape.</p> <p>Permitted waste types do not contain materials that are likely to become windborne such as litter and light plastics.</p>	Unlikely	Unsightly and potential nuisance	Waste material loss from delivery vehicle
Inadequate waste acceptance procedures	Receptors identified above	Air, land	<p>All waste will be subject to strict waste acceptance procedures to ensure that only compliant waste types are accepted.</p> <p>Third parties delivering waste to the Site will be required to provide the Operator, in advance, with all necessary information / documentation to satisfy the requirements of the Waste (England and Wales) Regulations 2011 and the Duty of Care.</p>	Low	Potentially harmful if incompatible or unacceptance wastes are received	Low

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			<p>Information required includes the type and quantity of waste, the form the waste takes (e.g. solid) and any special handling requirements needed. Only wastes that are authorised at the site are accepted.</p> <p>Waste loads will be inspected on deposit at the Site to ensure that only authorised materials are used in the deposit of waste for recovery.</p>			
Breach in site security	Site personnel, plant and intruders	Land	In the event of unauthorised public access to the Site, security measures will be reviewed and increased in the event of unlawful entry.	Quite low	Some harm	Not significant as long as management procedures adhered to.