

## Environmental Risk Assessment

<b>Facility:</b>	Leicester City Council- City Highways
<b>Location:</b>	90 Leycoft Road, Leicester, LE4 1BZ
<b>Location of environmentally sensitive sites (km / m):</b>	More than 1km
<b>Risk assessment carried out by:</b>	Mary Simcock
<b>Date:</b>	18-Feb-24

Data and information				Judgement				Action (by permitting)	
Receptor	Source	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management	Residual risk
What is at risk? What do I wish to protect?	What is the agent or process with potential to cause harm?	What are the harmful consequences if things go wrong?	How might the receptor come into contact with the source?	How likely is this contact?	How severe will the consequences be if this occurs?	What is the overall magnitude of the risk?	On what did I base my judgement?	How can I best manage the risk to reduce the magnitude?	What is the magnitude of the risk after management? (This residual risk will be controlled by Compliance Assessment).
Local human population	Releases of particulate matter (dusts) and micro-organisms (bioaerosols).	Harm to human health - respiratory irritation and illness.	Air transport then inhalation.	Very low	Low	Low	The wastes received are wastes with minimal potential for dust or potential to degrade meaning that the risk of dust being produced is solely in relation to movements on the concrete yard surface. All vehicles are only operated on the concrete surface. Any accumulations of dust on site will be removed by hand sweeping or by a mechanical sweeper. Site staff inspect the site daily for accumulations of dust in accordance with a cleaning regime	The Environmental Management Plan contains procedures for managing dust and mud. Compliance with the plan will effectively mitigate any risk through the use of screening, sweepers etc.	Low
Local human population	As above	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Very low	Low	Low	Local residents comprise of various industrial operations and residents. However as detailed above, there are no pollution pathways which exist to create nuisance.	As above	Low

Local human population, livestock and wildlife.	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Very low	Low	Low	There is a risk of litter due to the type of wastes accepted on site. However, the design of the site allows waste operation and storage to be enclosed in skips or bays which will remove the pathway for litter distribution by fault of air transportation. Should any litter escape the site, the larger site perimeter is fully surrounded by fencing which will further mitigate against the litter escaping the site.	In windy periods litter will be contained by the site perimeter fencing. Should litter become an issue, manual/mechanical sweepers will be used to clear up any litter. The company will carry out litter picking regularly.	Low
Local human population	Waste, litter and mud on local roads	Nuisance, loss of amenity, road traffic accidents.	Vehicles entering and leaving site.	Very low	Low	Low	The site is fully concreted which reduces the risk of mud on local road. Furthermore, the waste type accepted by the site is of the nature to not give rise to mud. All waste operations and storage are enclosed in skips or bays. This alongside the gated entrance and surrounding fencing of the larger site will minimise the any litter escaping the site	The Environmental Management Plan contains procedures for managing vehicle movements, litter and mud. Compliance with the plan will effectively mitigate any risk through the use of screening, sweepers etc.	Low
Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Very low	Low	Low	Typically, the waste types accepted on site do not give rise to odour. Regardless, as part of waste acceptance, any loads awaiting to enter the site are immediately refused should they be odorous.	There is little reason for the waste types to give rise to odour. However, should any complaints occur, the site has a robust complaints procedure which would result in a review of the wastes on the site and mitigate any odours from causing nuisance.	Low
Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Low	Low	Low	The site is in a mixed industrial and residential area. The site operations are not considered to be noisy nor have the potential to cause an issue beyond the site boundary. However, many measures are taken to prevent noise generated by permitted operations. Vibration is negligible due to the site only operating mobile plant which manouvre wastes.	Ensure site operations remain fully in accordance with the Environmental Management System. Plant are fitted with white noise alarms. Operations will only be carried out within the allowed operating hours.	Low
Local human population	Scavenging animals and scavenging birds	Harm to human health - from waste carried off site and faeces. Nuisance and loss of amenity.	Air transport and over land	Very low	Low	Low	The waste types accepted to site has minimal chance of attracting scavenging animals or birds.	Management of pests is controlled by the Environmental Management System. The use of a specialist pest control sub-contractor if scavenging animals are detected will also mitigate the risk.	Very low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Very low	Medium	Low	As above	As above	Low
Local human population and local environment	Flooding of site	If waste is washed off site it may contaminate buildings / gardens / natural habitats downstream.	Flood waters	Very low	Medium	Low	The site is within a Flood Zone 1 and therefore not at risk of flooding. Procedures are in place to ensure no contaminated water enters the drains within the permitted area. Furthermore, all wastes are stored within the enclosed building which acts as a defense against flooding and minimises the risk of wastes being washed off site.	Flooding is unlikely due to the site being situated within Flood Zone 1, and there are no historic records of any flooding. Operations of the site in accordance with the EMS mitigates any risk that remains.	Very low

Local human population and / or livestock after gaining unauthorised access to the waste operation	All on-site hazards: wastes; machinery and vehicles.	Bodily injury	Direct physical contact	Very low	Low	Low	There is machinery used on site. Any Site machinery that is purchased will be enclosed in accordance with HSE requirements.	Activities shall be managed and operated in accordance with the Management System (which includes site security measures to prevent unauthorised access).	Low
Local human population and local environment.	Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Low	Medium	Medium	The site in which the permitted area is situated has several CCTV cameras and are maintained by a UKAS accredited installer and will be maintained in accordance with the manufacturer's guidance. There is an out of hours security guard (Monday to Friday 6pm to 6:30am and all weekend) who will also contact management should they find any intrusions	Activities shall be managed and operated in accordance with the Management System (which includes site security measures to prevent unauthorised access).	Low
Local human population and local environment	Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff or firefighters. Pollution of water or land.	As above.	Low	Medium	Medium	Risk of accidental combustion of waste is very low. Fire is more likely in failure of electrical systems or accidental fire in the offices.	As above. Activities will be managed in accordance with the environmental management system (which includes fire and spillages).	Low
All surface waters close to and downstream of site.	Spillage of liquids, acid, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Acute effects: oxygen depletion, fish kill and algal blooms	Direct run-off from site across ground surface, via surface water drains, ditches etc.	Very low	Medium	Low	No liquids are stored on site	No liquids are stored on site	Low
All surface waters close to and downstream of site.	As above	Chronic effects: deterioration of water quality	As above. Indirect run-off via the soil layer	Very low	Low	Low	As above	As above	Low
Abstraction from watercourse downstream of facility (for agricultural or potable use).	As above	Acute effects, closure of abstraction intakes.	Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction.	Very low	Low	Low	As above	As above.	Very low
Groundwater	As above	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	Transport through soil/groundwater then extraction at borehole.	Very low	Low	Low	There is no potential for contaminated rainwater run-off or leachate from permitted waste types.	As above.	Very low
Local human population	Contaminated waters used for recreational purposes	Harm to human health - skin damage or gastro-intestinal illness.	Direct contact or ingestion	Very low	Low	Low	There is no potential for contaminated rainwater run-off or leachate from permitted waste types.	As above, plus procedures in the Management System will effectively mitigate this risk.	Very low

Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Very low	Very low	Very Low	There are no designated environmentally sensitive sites which may potentially be at risk of impact from the site.	There are no designated environmentally sensitive sites which may potentially be at risk of impact from the site.	Very low
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