

ERA7 Point Source Emissions to Air

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
Hazard	Receptor	Pathway	Probability of exposure	Consequence	Overall risk	Risk Management	Residual risk
<i>What has the potential to cause harm?</i>	<i>What is the risk? What do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>How likely is this contact?</i>	<i>What is the harm that can be caused?</i>	<i>What is the risk that still remains</i>	<i>What measures will we take to reduce the risk?</i>	<i>What risk remains following the application of management measures?</i>
Fridge units received on site may contain pentane blown insulating panels. Pentane gas is classified as flammable (HP3). ERP 3 Treatment Processes Cutting and compaction of insulating panels.	Humans and Property Atmosphere Potential for flammable or explosive atmosphere, which has the potential to cause a fire.	Air	Low	High	Medium	<ul style="list-style-type: none"> All insulating panels will be processed within intrinsically safe equipment in accordance with the “Guidance on Best Available Treatment Recovery and Recycling Techniques (BATRRRT) and Treatment of Waste Electrical and Electronic Equipment (WEEE)”. All processes will be carried out in well ventilated, appropriate areas. Details of the control measures can be found within the Technical Description and BAT assessment K256.1-09-005 	Low

ERA8 Fugitive Emissions – to air – dust and particulate matter

Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
Hazard	Receptor	Pathway	Probability of exposure	Consequence	Overall risk	Risk Management	Residual risk
What has the potential to cause harm?	What is the risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains	What measures will we take to reduce the risk?	What risk remains following the application of management measures?
<p>Due to the nature of the materials received on site the possibility of dust and particulate matter generation is limited.</p> <p>ERP1 Reception (delivery of waste to the site)</p> <p>Vehicle Movements (waste delivery and movement of waste within the site)</p> <p>ERP2 Storage</p> <p>ERP3 Treatment Processes (treatment consisting of manual dismantling, separating, baling and cutting)</p>	<p>Humans and Property</p> <p>Protected Nature Conservation Sites</p> <p>Atmosphere</p> <p>Potential Source of Odour – refrigerators containing food.</p> <p>Inhalation of particles.</p> <p>Deposition of dust/particles on property and land.</p> <p>Due to the predominantly south-westerly prevailing wind, receptors to the North East are the most at risk.</p>	Air	Very low	Medium	Low	<ul style="list-style-type: none"> Refrigeration waste is rejected at reception if food waste is detected in significant quantities; or any non-conforming wastes, contaminated material, burning, smoking or smouldering wastes are identified. Any food waste found is contained in a dedicated sealed container ready for disposal. Visual inspection of site areas will be made daily for deposition of dust. Daily inspection of fridges stored on site to identify any leaks, deteriorating containers and any other potential fire risks. Faults will be reported to Technically Competent Manager (TCM) and preventative/corrective measures will then be taken. All vehicles, plant and machinery would be operated and maintained in accordance with manufacturers specifications. In case of fire, occupants in surrounding properties (industrial and residential) may be 	Low

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ERP4 Material Dispatch						advised to remain indoors for up to 4 hours.	

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ERA9 fugitive emissions – to air – litter and debris

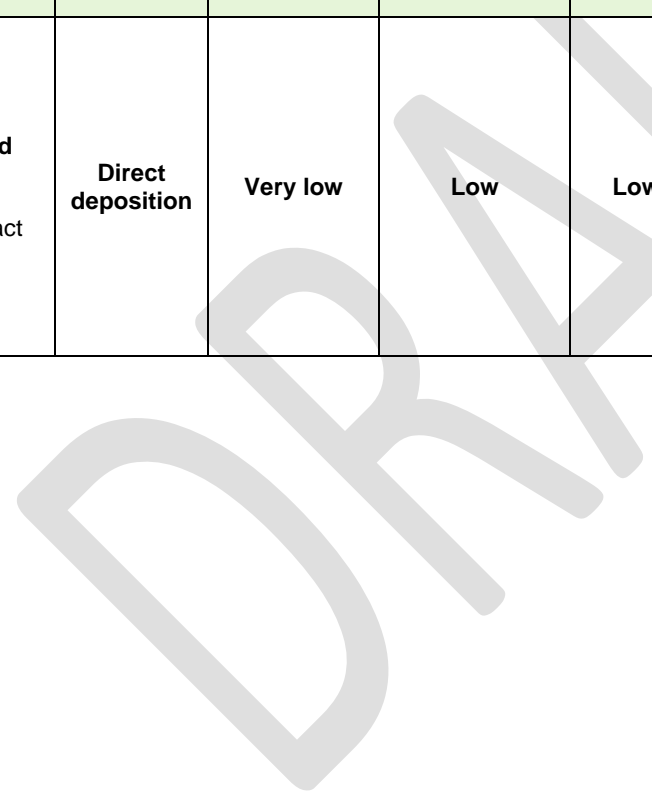
Identifying the harm and what could be harmed			Assessing the risk			Managing the risk	
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What has the potential to cause harm?	What is the risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains	What measures will we take to reduce the risk?	What risk remains following the application of management measures?
Predominant waste input is End of Life (EoL) refrigerators. Litter generation unlikely to be a significant issue. ERP1 Reception (delivery of waste to the site) Vehicle Movements (waste delivery and movement of waste within the site) ERP2 Storage ERP3 Treatment Processes (treatment consisting of manual dismantling) ERP4 Material Dispatch	Humans and Property Protected Nature Conservation Sites Litter Nuisance	Air (windblown and deposition)	Low	Low	Low	<ul style="list-style-type: none"> All incoming/outgoing loads and skips containing loose general waste are covered. Daily housekeeping to suppress litter generation. Training provided to staff, required to litter pick on a 'see it, pick it up' basis. Where litter is identified on the site boundary, the site supervisor and management will immediately organise the collection of litter by site staff – the source of litter will be investigated and removed to a covered container ready for disposal. 	Low

ERA10 Fugitive Emissions – Pests, Vermin & Scavengers

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What has the potential to cause harm?	What is the risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk that still remains	What measures will we take to reduce the risk?	What risk remains following the application of management measures?
<p>ERP2 Storage</p> <p>The types of wastes accepted, stored and treated at the site are unlikely to generate significant pest issues.</p>	<p>Humans and Property</p> <p>Protected Nature Conservation Sites</p>	<p>Air; Ground depending on vector</p>	<p>Low</p>	<p>Medium</p>	<p>Low</p>	<ul style="list-style-type: none"> Refrigeration waste is rejected at reception if food waste is detected in significant quantities. Containment of any food waste received in a sealed environment. Daily site inspections and good housekeeping procedures will be maintained. If an increase in pest pollution is identified or observed, the source will be investigated in order to undertake the most effective mitigation measures and a pest control contractor will be appointed if required. 	<p>Low</p>

ERA11 Fugitive Emissions – Mud & Debris

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ERP1 Reception (delivery of material to the site) ERP4 Material Dispatch	Humans and Property Amenity impact	Direct deposition	Very low	Low	Low	<ul style="list-style-type: none"> Vehicles will be checked in wet conditions – any vehicles found carrying mud or debris on the wheels or chassis will be cleaned down prior to exiting the site. Daily mud and debris monitoring – where an issue is identified this will be recorded in the site diary along with any corrective or preventative actions. 	Low



ERA12 Fugitive Emission – to Water

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<p>ERP1 Reception (delivery of material to the site)</p> <p>ERP2 Storage</p> <p>ERP3 Treatment processes (treatment consisting of manual sorting, separation, shredding, screening, bailing, compacting)</p> <p>ERP4 Material Dispatch</p>	<p>Protected Nature Conservation Sites</p> <p>Surface Water</p> <p>Groundwater</p> <p>Contamination</p>	<p>Land, water, runoff</p>	<p>Low</p>	<p>Medium</p>	<p>Medium</p>	<ul style="list-style-type: none"> Awareness and training provided on: dealing with spillages of potentially polluting substances; storage and handling of waste materials; potentially polluting substances; and site drainage. All processing will be carried out in the brick-built processing building which is located on an impermeable surface with a sealed drainage system. Storage will be carried out on an impermeable surface with a sealed drainage system. Potentially contaminated water will be retained on site with no discharge to groundwater. The integrity of surfaces and drainage systems will be checked and kept clear as part of the weekly site inspections. The interceptor is maintained in accordance to manufacturer's instructions. Good housekeeping – site is tidied and checked prior to closing for the day. 	<p>Low</p>

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						<ul style="list-style-type: none"> • Spill kits are kept on site and employees are trained in their use. • All waste transfers are overseen by a competent person. • Plant and equipment is maintained in accordance with manufactures guidelines to prevent fuel/oil leakage. • Fuels/oils are stored within secondary containment. • Following a fire or spillage, surface clearing and cleaning, drainage clearance, residue removal and integrity checks to surfaces and drainage systems will be undertaken. 	

ERA13 Accidents

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Transferring substances							
<p>ERP1 Reception (delivery of material to the site)</p> <p>ERP2 Storage</p> <p>ERP3 Treatment processes (Treatment consisting of manual sorting, separation, shredding, screening, baling and compacting)</p> <p>ERP4 Material Dispatch</p>	<p>Humans and Property</p> <p>Protected Nature Conservation Sites</p> <p>Surface Water</p> <p>Groundwater</p> <p>Atmosphere</p> <p>Adverse impact</p>	<p>Land, air, water</p>	<p>Low</p>	<p>Medium</p>	<p>Medium</p>	<ul style="list-style-type: none"> All vehicles delivering and collecting materials to/from the site are covered. Skips containing loose general waste are covered. All waste transfers are overseen by a technically competent person. The storage and treatment of waste occurs upon an impermeable surface and sealed drainage system. Waste is stored in designated containers and in areas served by a sealed drainage system. Spill kits on site and employees trained in their use. 	<p>Low</p>

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Plant or Equipment Failure							
ERP1 Reception (delivery of material to the site) ERP2 Storage ERP3 Treatment processes (treatment consisting of manual sorting, separation, shredding, screening, baling and compacting) ERP4 Material Dispatch	Humans and Property Protected Nature Conservation Sites Surface Water Groundwater Atmosphere Adverse impact	Land, air, water	Low	Medium	Medium	<ul style="list-style-type: none"> Critical spares for plant and equipment are held on site. Planned maintenance programme limits failure of key processing plant and equipment. Daily inspections of plant, equipment and infrastructure. 	Low
Flooding							

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<p>Entire Process The site is within a Flood Zone 1 area - <1 in 1000 chance of flooding in any year.</p>	<p>Protected Nature Conservation Sites</p> <p>Surface Water</p> <p>Groundwater Contamination</p>	<p>Water</p>	<p>Low</p>	<p>Medium</p>	<p>Low</p>	<ul style="list-style-type: none"> All processing will be carried out in the brick-built processing building which is located on an impermeable surface with a sealed drainage system. All storage will be carried out on an impermeable surface with a sealed drainage system. The drainage system can be isolated using shut off valves to avoid the loss of potentially contaminated water to surrounding land. Spill kits are kept on site and employees are trained in their use. Monitoring of flood alerts and associated EA warnings. Fuels/oils or any other potentially polluting liquids are stored internally in appropriate containers with secondary containment. 	<p>Low</p>
Vandalism							

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Entire Process	Humans and Property Protected Nature Conservation Sites Surface Water Groundwater Atmosphere Adverse impact	Land, air, water	Medium	High	High	<ul style="list-style-type: none"> Site is within an industrial estate which further contains DCS sites previously permitted. Externally monitored security systems (CCTV) and surrounding commercial and residential sites also have CCTV and monitoring procedures in place. 	Medium
Fire							
ERP1 Reception (delivery of material to the site) ERP2 Storage ERP3 Treatment processes (treatment consisting of	Humans and Property Protected Nature Conservation Sites Atmosphere Loss of life and property, loss of habitat, destruction and	Air (spread through physical contact; fanned by winds)	Low	High	Medium	<ul style="list-style-type: none"> Approved Fire Prevention Plan (FPP) in operation from previous permit (K256.1~09~007). Emergency plan in place. Treatment of waste with highest fire risk is carried out in an intrinsically safe manner in accordance with BATRRT. Waste storage areas will be separated with appropriate fire breaks between combustible materials. 	Low

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manual sorting, separation, shredding, screening, baling and compacting) ERP4 Material Dispatch	loss of amenity					<ul style="list-style-type: none"> • Incoming waste is segregated. • 24-hour CCTV in operation. • Potential ignition sources will be removed from waste storage areas. • All employees are provided with training on fire safety and the correct use of fire extinguishers. • Fire extinguishers checked weekly and serviced annually. • The operational section of the site is a no smoking area. • Daily inspections of EoL fridges to identify leaks and ensure segregation of waste according to the size and separation distances stated within the FPP documentation. • All areas are subject to daily housekeeping – working areas are swept and cleared to remove debris and minimise fire risks. 	

ERA14 Noise & Vibration

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ERP1 Reception (delivery of material to the site) ERP2 Storage ERP3 Treatment processes (treatment consisting of manual sorting, separation, shredding, screening, baling and compacting) ERP4 Material Dispatch	Noise sensitive locations¹ Protected Nature Conservation Sites	Air, land	Low	Medium	Low	<ul style="list-style-type: none"> Site is located within an industrial area: although a noise impact assessment carried out previously for the permit EA/EPR/EB3100HN/V002 indicated a limited number of residential properties may experience significant adverse impacts, no complaints have been received from neighbours or regulatory bodies. Treatment is undertaken in an enclosed building. Site operations are only carried out during permitted hours, avoiding unsociable hours. Plant and equipment are inspected and maintained to manufacturers' specifications to ensure smooth and optimal operation. 	Low

¹ [Noise and vibration management: environmental permits - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/noise-and-vibration-management-environmental-permits), Updated 31 January 2022