ERA8 Fugitive Emissions – to Air – Odour, Dust & 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?*
[ERP1 Reception (Delivery of materials to the site) Vehicle Movements **ERP2 Storage** **ERP3 Treatment processes**	**[Humans & Property** **Environmentally Sensitive Sites** **Atmosphere** Inhalation of particles Deposition of dust/particles on property and land Derogation to amenity value]	**Air**	**LOW**	**LOW**	**LOW**	• Waste type (used car parts) is considered to be very low in odour and is source segregated. • Waste inspected at arrival and non-conforming material rejected. • All processes are carried out within a building. • All operational staff trained in odour control techniques. • All processes and storage are carried out within a building. • All operational staff trained in odour control techniques. • All processes are carried out within a building with local exhaust ventilation (LEV) and HEPA filters fitted. • All vehicles delivering and collecting materials to/from the site are covered. • Waste received within an enclosed building. • Waste received within containers. • Regular maintenance and inspection of storage areas and buildings. • Process equipment cleaned between batches to remove particulates.	**VERY LOW**

ERA9 Fugitive Emissions – to Air – Litter & Debris

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?
ERP1 Reception (delivery of material to the site) **ERP2 Storage** **ERP3 Treatment processes** **ERP4 Material Dispatch**	***Humans & Property*** ***Environmentally Sensitive Sites*** *Litter/Debris/ Nuisance*	**Air; windblow, physical transport and deposition**	**LOW**	**MEDIUM**	**MEDIUM**	• All vehicles delivering and collecting materials to/from the site are covered. • Waste received within enclosed building. • Waste received within containers. • Regular housekeeping of site surfaces to remove litter and debris and prevent spread. • Regular maintenance and inspection of storage areas. • Waste types received at site do not contain significant amounts of light or loose material. • SOPs and training provided to all relevant staff to prevent overfilling containers.	**LOW**

ERA10 Fugitive Emissions – Pests, Vermin & Scavengers

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?
N/A – Given waste types accepted onto site, very unlikely to give rise to significant pest issues.	***Humans & Property*** ***Environmentally Sensitive Sites***	**Air** **Ground**	**VERY LOW**	**MEDIUM**	**LOW**	• If required a pest control contractor employed.	**VERY LOW**

ERA11 Fugitive Emissions – Mud & Debris

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?
[ERP1 Reception (delivery of material to the site) **ERP4 Material Dispatch]**	***Humans & Property*** *Amenity impact]*	**Direct deposition**	**VERY LOW**	**MEDIUM**	**LOW**	• Site access routes are all concreted. • If required delivery vehicles will be cleaned to prevent mud and debris tracking through site and onto the roadway.	**VERY LOW**

ERA12 Fugitive Emission – to Water

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?
[ERP1 Reception (delivery of material to the site) **ERP2 Storage** **ERP3 Treatment processes** **ERP4 Material Dispatch]**	***Environmentally Sensitive Sites*** ***Surface Water*** *The closest surface water feature is an inland river approx. 120 m east.* ***Groundwater*** *Contamination*	**Land, water, runoff**	**VERY LOW**	**MEDIUM**	**LOW**	• Site is constructed of an impermeable surface. • All waste reception, handling and treatment occurs in an enclosed building with sealed drainage. • Waste will not contain significant free liquid. • Spill kits on-site and employees are trained in their use. • Distance to surface water receptors. • Diesel or any other potentially polluting liquids are stored in accordance with the Oil Storage Regulations.	**LOW**

ERA13 Accidents

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?
Transferring substances							
ERP1 Reception (delivery of material to the site) **ERP2 Storage** **ERP3 Treatment processes** **ERP4 Material Dispatch**	***Humans & Property*** ***Environmentally Sensitive Sites*** ***Surface Water*** ***Groundwater*** ***Atmosphere*** *Adverse impact*	**Land, air, water**	**LOW**	**LOW**	**LOW**	• All vehicles delivering and collecting materials to/from the site are covered. • All waste transfers are overseen by a competent person. • Loading/unloading occurs within an enclosed building. • SOPs and training provided to all relevant staff to prevent overfilling containers. • Limited vehicle movements on-site. • Spill kits available.	**VERY LOW**

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?
Equipment Failure							
ERP1 Reception (delivery of material to the site) **ERP2 Storage** **ERP3 Treatment processes** **ERP4 Material Dispatch**	***Humans & Property*** ***Environmentally Sensitive Sites*** ***Surface Water*** ***Groundwater*** ***Atmosphere*** *Adverse impact*	**[Land, air, water]**	**LOW**	**HIGH**	**MEDIUM**	• Limited vehicle movements into site reduce risk of accident. • All vehicle movement areas are hard surfaced • Critical spares held on site • Planned maintenance programme limits failure of key process components. • Daily inspections of plant, equipment and site infrastructure (including LEV systems)	**LOW**

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?
Flooding							
N/A – the site is not identified as being at risk from flooding.							
Vandalism							
ERP1 Reception (delivery of material to the site) **ERP2 Storage** **ERP3 Treatment processes** **ERP4 Material Dispatch**	***Humans & Property*** ***Environmentally Sensitive Sites*** ***Surface Water*** ***Groundwater*** ***Atmosphere*** Adverse impact	**Land, air, water**	**LOW**	**HIGH**	**MEDIUM**	**Examples:** • Site is secured by fencing and gated. • Externally monitored security systems (CCTV). • Site is in rural location.	**LOW**

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?
Fire							
ERP1 Reception (delivery of material to the site) **ERP2 Storage** **ERP3 Treatment processes** **ERP4 Material Dispatch**	***Humans & Property*** ***Environmentally Sensitive Sites*** ***Surface Water*** ***Groundwater*** ***Atmosphere*** *Adverse impact*	**Spread through physical contact; fanned by winds**	**LOW**	**HIGH**	**MEDIUM**	• Site has a Fire Risk Assessment. • Emergency Plan in place. • Waste storage areas will be organised with appropriate breaks between materials. • Incoming waste is source segregated. • Potential ignition sources will be removed from waste storage areas. • The site is a no smoking area. • Active dust extraction provided by LEV allied with HEPA filters. • Fire extinguishers are located strategically through site. • All areas are subject to regular housekeeping. • Materials held on site are almost exclusively non-combustible.	**LOW**

ERA14 Noise & Vibration

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?
ERP1 Reception (delivery of material to the site) **ERP2 Storage** **ERP3 Treatment processes** **ERP4 Material Dispatch**	***Noise sensitive locations***[1] ***Environmentally Sensitive Sites***	**Air, land**	**LOW**	**MEDIUM**	**MEDIUM**	• Operations are undertaken within a fully enclosed building. Doors are kept closed when deliveries or collections are not being made. • Site operations are only undertaken during operational hours. • Daytime operations. • Process equipment is inspected and maintained regularly in line with recommendations. • Distance to noise sensitive locations. • Noise Impact Assessment identified limited impact from activities.	**LOW**

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

ERA15 Climate Change

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?
ERP1 Reception (delivery of material to the site) **ERP2 Storage** **ERP3 Treatment processes** **ERP4 Material Dispatch**	***Humans & Property*** ***Environmentally Sensitive Sites*** ***Surface Water*** ***Groundwater*** ***Atmosphere*** *Adverse impact*	**Land, air, water**	**MEDIUM**	**MEDIUM**	**MEDIUM**	• Site is secured by fencing and gated and CCTV is monitored externally 24/7; • Regular monitoring of weather warnings/flood alerts/EA warnings. • All vehicles delivering waste will abide by on-site speed limits and road markings. • Waste deliveries and site operations shall be overseen by the Technically Competent Manager or nominated competent person; • Unloading of waste will only be undertaken in designated areas; • Treatment activities will be undertaken on an impermeable surface with sealed drainage; • Appropriate training regarding process/plant operation and emergency procedures is provided to all relevant staff; • Plant and equipment will be maintained in accordance with their maintenance schedules or when applicable;	**LOW**

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?
						• Fuelling of plant is to be undertaken on an impermeable surface with a suitable spill kit and fire extinguisher available. • Stockpiled materials are non-combustible greatly reducing risk of fire.	