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 Production processes** **ERP4 Material Dispatch**	**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**	• All vehicles delivering and collecting materials to/from the site are covered or containerised. • Daily maintenance and inspection of storage areas and buildings (recorded in site diary). • All vehicles, plants and machinery would be operated and maintained in accordance with manufacturer's specifications or annually, whichever is more frequent. • Roads and circulation areas would be dampened down in periods of dry weather by spraying water. • Vehicle speeds would be restricted to a maximum of 10mph. • Stockpile heights would be limited. • All plant based on site would be equipped with upward facing exhausts. • Operations which may give rise to dust emissions will not be carried during strong windy conditions. • Dust controlled systems are routinely maintained and serviced on all plant and machinery.	**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* *Amenity Issues/Road Safety*	**Air; windblow, physical transport and deposition**	**LOW**	**LOW**	**LOW**	• Types of waste received unlikely to generate litter. • Daily housekeeping of site surfaces and storage areas to remove litter and debris and prevent spread. • All vehicles delivering and collecting materials to/from the site are sheeted and containerised. • SOPs and training provided to all relevant staff to prevent litter and debris accumulating. • Waste found to be non-compliant with the permit will be rejected. • Where litter or debris is generated, site operators will be instructed to undertake a 'litter pick' to rectify the issue before it can spread offsite. • Waste received within designated area. • Waste types received at site do not contain significant amounts of light or loose material. • Daily inspections by site staff and records kept.	**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?
ERP2 Storage	***Humans & Property*** ***Environmentally Sensitive Sites***	**Air, Ground depending on vector**	**VERY LOW**	**MEDIUM**	**LOW**	• Only waste accepted on site are source-segregated end of life tyres. • In the unlikely event that unacceptable waste is delivered, appropriate containment and removal from site will be carried out. • Waste permitted for processing is non-biodegradable and is unlikely to attract pests or vermin. • Daily site inspections will be carried out in accordance with the Management System Summary. • Pest control contractor would be employed where required.	**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**	**LOW**	**MEDIUM**	**MEDIUM**	• Vehicles visually inspected before they leave the site and advice given to drivers if there is a need to clean mud or debris before leaving. • All areas of site cleaned as necessary by site personnel or hired in road sweepers, to prevent any mud or debris being deposited outside the site. • Regular housekeeping of all areas undertaken on a weekly basis to maintain cleanliness.	**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 onsite Lagoon, approximately 120m South West of the site* ***Groundwater*** *Contamination*	**Land, water, runoff**	**LOW**	**MEDIUM**	**MEDIUM**	• EoL tyres are unlikely to generate significant contaminated run-off. • Liquid wastes are not permitted on site. • All waste is assessed for permit compliance prior to formal acceptance at the site and rejected where non-complaint. • Rainwater is captured by a surface water drainage system. • Spill kits on-site and employees are trained in their use.	**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**	• Waste accepted and processed onsite is non-hazardous. • Transfers of material overseen by a competent person, within designated area, equipped with sufficient containment. • Spill kits available, spills dealt with in accordance with SOPs. • Treatment carried out on an impermeable surface with sealed drainage system and water. • Fuels and oil stored in suitable containers away from site operations. • All vehicles delivering and collecting materials to/from the site are sheeted and containerised. • Loading/unloading occurs within a designated area. • Regular housekeeping of all areas undertaken on a weekly basis.	**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**	**LOW**	**LOW**	• All vehicles, plant and machinery would be inspected and maintained regularly in line with maintenance schedule set out by the manufacturer's specifications. • Storage containers are checked as part of periodic site inspection for integrity/leakage. • Limited external vehicle movements into site reduces risk of accidents. • All vehicle movement areas are hard surfaced or impermeable. • Documented management system controls site operations.	**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							
ERP1 Reception (delivery of material to the site) **ERP2 Storage** **ERP3 Treatment processes** **ERP4 Material Dispatch**	***Humans & Property*** ***Environmentally Sensitive Sites*** ***Surface Water*** ***Groundwater*** *Adverse impact*	**Land, water**	**LOW**	**HIGH**	**MEDIUM**	• Emergency procedures in place. • Surface water is actively managed using the surface water drainage system within the site to prevent flooding. • Monitoring of weather warnings/flood alerts/EA warnings. • Fuels/oils or any other potentially polluting liquids are stored within appropriate containers with 110% secondary containment. • Spill kits on site and employees are trained in their use. • Treatment carried out on an impermeable surface with sealed drainage system. • In case of flooding, the site will stop accepting waste. • Where possible, remove processed material from flooded area.	**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?
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**	**VERY LOW**	**MEDIUM**	**LOW**	• Site is secured by fencing and gated. • Externally monitored security systems (CCTV). • The site is operational for up to 24 hours a day.	**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**	• The site will be managed in accordance with the minimum operating standards detailed in the Fire Prevention Plan (K18.16~09~004). • EoL tyres are stored within vehicles (delivery or dispatch), storage bays (legio block walls) or cages. • Plant and equipment will be serviced and maintained in accordance with manufacturers guidelines. • Emergency Procedures in place and outlined in Fire Prevention Plan (K18.16~09~004) and the Management System Summary (K18.16~09~002). • The site is a no smoking area. • All areas are subject to regular housekeeping. • Fuelling of plant to be undertaken on an impermeable surface with a suitable spill kit and fire extinguisher available.	**MEDIUM**

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**	• Representative Noise Impact Assessment from another facility indicates no need for a Noise & Vibration Management Plan. • The site is positioned with a large industrial area and is positioned approximately 650m West of the A1. • Operations are only carried out within permitted hours. • All vehicles, plant and machinery would be inspected and maintained regularly in line with maintenance schedule set out by the manufacturer's specifications.	**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. • The site will be managed in accordance with the minimum operating standards detailed in the Fire Prevention Plan (K18.16~09~004).	