



Environmental Risk Assessment

Port Sutton

Shred and Recycle Ltd.

Document Reference: 389/4—R1.4 – ERA



Minerals
Waste
Environment

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Environmental risk assessment to include the storing and treating of redundant athletics tracks, rubber shock pads and waste AstroTurf for reuse (LRWP 35)

Facility:	Waste Operation: Storing and treating redundant athletics tracks, rubber shock pads and waste AstroTurf for reuse
Location:	West Bank, Sutton Bridge, Spalding PE12 9QR
Location of environmentally sensitive sites (km / m):	Protected Habitat (Mudflats) running along the River Nene – (155m) 4.4km south from "The Wash" SSSI, 3.95km from "Common Pheasant and Red-Legged Partridge releases – European sites and 500m buffer zones"
Risk assessment carried out by:	MPG
Date:	12/02/2026

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.	Medium	Medium	Medium	Permitted waste types do not include dusts or powders, but the treatment activities have the potential to produce particulate matter so a higher risk is estimated. There is potential for exposure to those working close to the site (apart from the operator and employees).	Daily visual dust monitoring, pre-emptive monitoring of weather forecasts, internal roads etc. when deemed necessary. Suspension of operations if daily dust monitoring determines unacceptable dust levels at the site boundary. Maintenance and cleaning of plant and equipment in accordance with manufacturer guidelines. The Site is not within an AQMA. A. DEMP is in place.	Low
Local human population	As above	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Medium	Low	Low	The nearest residential property in the prevailing wind direction is approximately 250m away. Mitigation measures to reduce nuisance should reduce the impact on the nearby housing to a minimum.	As above.	Low
Local human population and the environment.	Climate Change	Potential for increased likelihood of dust generation.	Air transport then inhalation / deposition.	Low	Medium	Medium	Summer daily maximum temperature may be around 6°C higher compared to average summer temperatures now. Drier summers, potentially up to 34% less rain than now.	As above. Proposed risk management / mitigation measures are considered sufficient to allow for changes due to climate change.	Very low

Local human population, livestock and wildlife.	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Medium	Medium	Medium	Local residents often sensitive to litter, however permitted waste types have low litter potential.	Waste types very unlikely to produce litter. Any litter within the site would be cleared at the end of each day. Potential litter will be removed and transported off site. Boundary checks will be carried out as part of site daily checks. It is important to ensure that litter does not	Low
Local human population	Waste, litter and mud on local roads	Nuisance, loss of amenity, road traffic accidents.	Vehicles entering and leaving site.	Medium	Medium	Medium	Road safety, local residents often sensitive to mud on roads.	The nature of the surrounding access roads and waste has low potential for creating mud. Waste types unlikely to produce significant amounts of mud. The site and access roads are surfaced and a road sweeper would be employed if muddy conditions on site.	Low
Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Low	Medium	Medium	Local residents often sensitive to odour. Permitted waste types have low odour potential.	Odour controls not considered necessary due to waste types and processes.	Low
Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Medium	Medium	Medium	Local residents often sensitive to noise and vibration	A Noise Management Plan is in place at the site.	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	Low	Medium	Medium	Permitted wastes unlikely to attract scavenging animals and birds but may become nesting / breeding sites.	No mitigation required, wastes very unlikely to attract scavenging animals and birds. Nevertheless, should scavengers be identified, appropriate pest control specialists would be employed by the operator.	Very low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Low	Medium	Medium	Permitted waste unlikely to attract pests.	As above.	Very 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	Medium	Medium	Medium	Permitted waste types are non-hazardous so only a medium magnitude risk is estimated. Site is within Flood Zone 2 and 3.	The Site is within Flood Risk Zone 3. However, there are flood defenses along the River Nene which are intended to protect the Port and reduce the risk of flooding. EMS will contain emergency flood procedures, and monitoring of weather forecast can provide preventative measures, such as clearing the site when significant risk of flooding is likely due to weather.	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	Medium	Medium	Medium	Site is secure. Permitted waste types are non-hazardous so only a medium magnitude risk is estimated.	EMS (as well as any HSE requirements) requirements are adhered to. Appropriate training and PPE is provided to all staff.	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 or flora.	Respiratory irritation, illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandal s. Pollution of water or land. Harm to flora	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Medium	Medium	High	Permitted waste types do not include sludges or liquids and are non-hazardous; however, rubber would have a higher magnitude of risk should arson occur.	EMS adhered to. Site security and wider Port security is in place (external northern yard is fenced with 3m high metal fencing with extensive CCTV. FPP adhered to with specific controls in place for fire suppression.	Low
Local human population and local environment	Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land or flora.	Respiratory irritation, illness and nuisance to local population. Injury to staff or firefighters. Pollution of water or land. Harm to flora	As above.	Medium	Medium	Medium	As above.	As above. FPP in place.	Low
All surface waters close to and downstream of site.	Spillage of liquids, 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.	Medium	Medium	Medium	Type of waste does not have any potential for leaching; however, there is the possibility of accidental vehicle spills. The site's proximity to the River Nene gives this a score of Medium for probability.	The type of waste does not have any potential for leaching. An emergency spill procedure is in place for any accidental spills of potentially polluting liquids. Stockpiled sand stored on sealed surface to prevent excessive suspended solids potentially running off from site. Whilst waste may be temporarily stored outside, the entire site is on a sealed impermeable surface. Furthermore, there is a drainage system for the site and the wider industrial complex (Drawing ref: 389/4 <i>Drainage Plan</i>), so any contaminated water cannot seep into ground or other surface waters.	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	Medium	Medium	Medium	Waste types are non-hazardous so harm is likely to be temporary and reversible.	As above.	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.	Medium	Medium	Medium	Waste types are non-hazardous so harm is likely to be temporary and reversible. Sealed surfaces and sealed drainage system designed to collect surface water run-off.	As above.	Low
Local human population and local environment. Site staff (flash floods).	Climate Change	Increased run-off, flash floods. Site drainage system is overwhelmed.	Flood waters.	Medium	Medium	Medium	The biggest rainfall events are up to 20% more intense than current extremes (peak rainfall intensity). At its peak, the flow in watercourses could be 30% more than now, and at its lowest it could be 65% less than now.	As above, emergency measures to suspend operations, including emergency flood procedures in EMS.	Low
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering,	Any	Low	Medium	Low	Waste operations may cause harm to and deterioration of nature conservation sites, distance to nearest SSSI is 4.4km south.	No specific mitigation required due to distance from site.	Low

		disturbance, predation etc.							
Local human population and all surface waters close to and downstream of site.	Serious Fire	Nuisance, harm to human health, loss of amenity, deterioration of water quality	Air transport then inhalation or deposition. Direct run off of fire water across site to surface waters.	Low	High	Medium	Waste fires are not common but approximately 300 fires pa linked to waste activities. Impact on health and amenity can be significant for many days or weeks. Permitted waste types are unlikely to self-ignite or self-combust. Plastic fibres and rubber have a fire risk; in particular rubber fires are serious and difficult to extinguish.	Fire Prevention Plan limits storage times of waste, implements fire breaks and fire walls. For rubber, piles are kept in bays with Lego block back and side walls. Annual tonnage to be 10,000t.	Low
All surface waters close to and downstream of site.	Serious Fire	Loss of amenity, deterioration of water quality	Direct run off of fire water across site to surface waters.	Low	High	Medium	Waste fires are not common but approximately 300 fires pa linked to waste activities. In event of fire, fire water can be produced for days/ weeks. Contaminated firewater run-off can kill fish and aquatic life. Permitted waste types are unlikely to self-ignite and are not self-combustable.	Fire Prevention Plan in place for the site. Fire Prevention Plan takes into account the site drainage, with measures in place to prevent firewater from escaping The Site.	Low
All local flora	Serious Fire	Loss of amenity, deterioration of flora health	Bunds directly west of the site may come into contact with a serious fire	Low	High	Medium	Waste fires are not common but approximately 300 fires per annum are linked to waste activities. The high severity of consequence combined with the very low likelihood justify a magnitude of 'Medium'.	As above.	