

**Generic risk assessment for standard rules set number SR2008 No3 v4.0**

<b>Standard Facility:</b>	Waste Operation: Household, Commercial and Industrial Waste Transfer Station with treatment & In vessel Composting Facility
<b>Location:</b>	Hanger 25, Causeway head, Silloth, Cumbria CA7 4PE
<b>Location of environmentally sensitive sites (km / m):</b>	Greater than 50m (see below)
<b>Risk assessment carried out by:</b>	Silverwoods Waste Management
<b>Date:</b>	10th September 2018

The scope of the permit and associated rules is defined by the following risk criteria:

- Parameter 1 Permitted activities - The storage and repackaging of waste (D15, R13, D14) and treatment consisting only of manual sorting, separation, screening, baling, shredding, crushing or compaction (D9, R3, R4, R5).
- Parameter 2 Permitted waste types - Non hazardous Household, Commercial and Industrial Waste
- Parameter 3 Quantity of waste accepted at the facility: <75,000 tonnes per annum.
- Parameter 4 The quantity of tyres stored at the facility shall not be more than 50 tonnes
- Parameter 5 All wastes shall be bulked, transferred or treated inside a building, except for specified low-risk waste which may be bulked, transferred or treated outside. However, specified low risk waste must be treated inside a building if the activities are being carried out within an Air Quality Management Area (AQMA) designated for particulate matter in the form of PM10.
- Parameter 6 All waste shall be stored in a building or outside within a secure container, except for specified low-risk waste which may be stored outside without using containers.
- Parameter 7 All waste shall be stored and treated on an impermeable surface with sealed drainage system, except for specified low-risk waste which may be stored and treated on hard standing.
- Parameter 8 The only point source discharges to controlled waters or groundwater, are surface water from the roofs of buildings and from areas of the facility not used for the storage or treatment of wastes.
- Parameter 9 The activities shall not be carried out within 500m of a European Site (candidate or Special Area of Conservation, proposed or Special Protection Area or Ramsar site) or a Site of Special Scientific Interest (SSSI);
- Parameter 10 The activities shall not be carried out within 50m of any well, spring or borehole used for the supply of water for human consumption. This must include private water supplies
- Parameter 11 The activities are not carried out predominantly using a limited number of the permitted waste types in a manner which significantly increases any of the risks compared to the generic operation of this type of facility, for example predominantly storing wastes which presents a significant increase in fire risk.

Abbreviations: SR - Standard Rule  
 SR (emissions of substances not controlled by emission limits - buildings) - emissions of substances shall not cause pollution, with appropriate measures:  
 bulking, transfer or treatment in a building; storage in a building or secure container;  
 waste storage and treatment on impermeable surface with sealed drainage (except);  
 specified waste storage and treatment on hard standing or on impermeable surface with sealed drainage.

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.	High	Medium	Low	Permitted waste types do not include dusts, powders or loose fibres but the treatment activities will produce particulate matter so a high magnitude risk is estimated.	all treatment/storage/loading undertaken within a weatherproof building. Public access is restricted at the entrance to site and all visitors must be authorised. area is no within an AQMA. All employees are issued with Relevant PPE to minimise dust inhalation. No Waste streams stored outside	Low
Local human population	As above	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Medium	Low	Low	Local residents often sensitive to dust. Local population potentially sensitive to any dust created by onsite operations and transport of materials. The nearest residential property is less than 250m away from site.	All vehicles arriving are sheeted. All vehicles leaving the site are sheeted. All operations/loading/treatment take place within the building with doors closed. There will be no dust arising from waste operations. If the track leading to the site gets dusty during the summer periods, we have a dampening system in place to prevent dust	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. Limited public access to the site. Nearest residential property over 250m away. No litter is present from the materials to be imported and stored on site. All materials are organic and therefore should have minimal nonbiodegradable contaminants present.	As above. Appropriate measures could include clearing litter arising from the activities from affected areas outside the site. Site will be regularly cleaned to remove any litter and rubbish present from the site. Any loads which are contaminated will be quarantined and screened. any non-organic material removed will be collected and disposed of accordingly.	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. No litter or waste is present from the material imported and stored onsite. All materials are organic, therefore should have minimal nonbiodegradable contaminants present. All areas of the yard have non permeable concreted surfaces.	As above. Appropriate measures could include clearing waste, litter and mud arising from the activities from affected areas outside the site. All litter and waste produced on site will be disposed of using correct methods (i.e. recycling of plastics and cardboards products). Local roads will be checked periodically for any waste which is directly associated with the site. all vehicles leaving the site with material will be required to have sheeted trailers in place. Vehicle movements will only occur during site operation hours (06:30 - 18:00). The surfaces of the site will be periodically cleaned to remove any mud or debris present.	Low

Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Low	Medium	Low	Local residents often sensitive to odour. Materials to be imported onto site are non-odourous.	SR - emissions shall be free from odour. SR (if required) - odour management plan. Odour will be restricted by SR (emissions of substances not controlled by emission limits - buildings). Odour Management Plan is present to assess and continually monitor emissions. A complaints form and contact details are available.	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	Low	Local residents often sensitive to noise and vibration. Heavy plant machinery and articulated vehicle movements are carried out on site daily. Site is located within an industrial area where machinery has been historically used.	SR - emissions shall be free from noise and vibration. SR (if required) - noise and vibration management plan. Noise will be restricted by SR (emissions of substances not controlled by emission limits - buildings). All Movements and operations concerning vehicles will only be undertaken during working hours (06:30-18:00). sensitive time periods such as weekends and bank holidays will be taken into consideration when operations are taking place. Operations take place inside building with doors closed have typical noise levels to other facilities in surrounding area, therefore no noise management plan is required.	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	Medium	Medium	Low	Permitted wastes may attract scavenging animals and birds.	Waste materials stored within the closed buildings. Access to buildings is restricted to prevent animals and bird entering.	Very low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Medium	Medium	Low	Insect pests can multiply on permitted wastes, particularly in summer months.	Waste materials stored within the closed buildings. Access to buildings is restricted to prevent animals and bird entering.	Low

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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	Low	Site is not within a flood risk area. Drainage present on the site to prevent excessive build up of standing water. no historic experiences of flooding at site.	SR - management system (will include flood risk management). Waste washed off site restricted by SR (emissions of substances not controlled by emission limits - buildings). All waste kept inside buildings	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	Low	Site has limited public access. The buildings are closed so livestock cannot gain entry	Access to the site is restricted to authorised visitors only. All persons on site must have hi-viz clothing and safety wear. speed limit is operational at all times on site. Gates are locked to prevent entry to site during non working hours.	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.	Medium	Medium	Medium	Permitted waste types do not include sludges or liquids and are non-hazardous so only a medium magnitude risk is estimated. All materials to be stored on site are non-flammable. No liquids or sludges to be stored on site. All material to be stored have a dry matter content of over 20% and are stackable.	There is a Fire Management plan and Risk assessment in place.	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.	Medium	Medium	Medium	Risk of accidental combustion of waste is moderate. All materials to be stored on site are non-flammable	There is a Fire Management plan and Risk assessment 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	Low	All material to be stored have a dry matter content of over 20% and are stackable and kept within a building.	SR - all liquids shall be provided with secondary containment.... (applies to non- wastes such as fuels). Run-off restricted by SR (emissions of substances not controlled by emission limits - buildings). All fuels and oils are stored within a designated building on the site. fuel tanks are stored within a secure, bunded area. All wastes are stored inside the buildings and are not susceptible to weather	Very 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	Low	Low	All materials are stackable with a dry matter content of over 20%. Site is surfaced with an impermeable concrete surface.	SR - all liquids shall be provided with secondary containment.... (applies to non- wastes such as fuels). Run-off restricted by SR (emissions of substances not controlled by emission limits - buildings). All fuels and oils are stored within a designated building on the site. fuel tanks are stored within a secure, bunded area. All wastes are stored inside the buildings and are not susceptible to weather	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.	Medium	Medium	Low	All materials are stackable with a dry matter content of over 20%. All waste kept inside building.Site is surfaced with an impermeable concrete surface. the Site is not within 50m of a spring, well or borehole.	SR - all liquids shall be provided with secondary containment.... (applies to non- wastes such as fuels). Run-off restricted by SR (emissions of substances not controlled by emission limits - buildings). All fuels and oils are stored within a designated building on the site. fuel tanks are stored within a secure, bunded area. All wastes are stored inside the buildings and are not susceptible to weather	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	Low	There is no potential for contaminated rainwater run-off or leachate from permitted waste types. The waste, being stored inside the building, will not have a pathway to groundwater	There is no potential for contaminated rainwater run-off or leachate from permitted waste types. The waste, being stored inside the building, will not have a pathway to groundwater	Low
Local human population	Contaminated waters used for recreational purposes	Harm to human health - skin damage or gastro-intestinal illness.	Direct contact or ingestion	Low	Medium	Low	There is no potential for contaminated rainwater run-off or leachate from permitted waste types. The waste, being stored inside the building, will not have a pathway to groundwater	There is no potential for contaminated rainwater run-off or leachate from permitted waste types. The waste, being stored inside the building, will not have a pathway to groundwater	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	Medium	Medium	Waste operations may cause harm to and deterioration of nature conservation sites.	SR - activities shall not be carried out within 500m of a European Site or SSSI. (Distance criteria as agreed with Natural England/Countryside Council for Wales). All materials are stored in accordance to relevant legislation to ensure safe and environmentally sound storage. No designated areas or protection zones are located within 500m of the site.	Low
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	The materials to be stored on site are non flammable and have no prior history of fire issues. The site has an impearable concrete surface and adequate drainage.	There is a Fire Managemnt plan and Risk assesment in place.	Low

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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. The materials to be stored on site are non flammable and have no prior history of fire issues. The site has an impearable concrete surface	There is a Fire Managemnt plan and Risk assesment in place.	Low
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**Notes:** Red triangle indicates comment containing supporting information  
 Yellow columns contain drop down menus that allow automatic evaluation of risk in green column