

Morris & Co. (Handlers) Ltd

Top Shed

Neath Abbey Wharf

Neath Port Talbot

SA10 6BL

NON-TECHNICAL SUMMARY

Doc ref 2016090105

1. SITE LOCATION AND DESCRIPTION

1.1. Location

The site is located to the west of Neath, approximately 700m to the east of Junction 43 of the M4 Motorway.

1.2. Description

The site consists of a former waste recycling and composting facility.

Access to the site is off Jenkins Road which joins the B4290 to the north. The land to the north of the site is occupied by industrial units on the same industrial estate. The remaining site boundaries adjoin woodland.

2. PERMIT APPLICATION

The application seeks approval for the operation of a metals recycling facility. The operations proposed for the site are the same as those covered by standard rules permit SR2015 No14, with the exception of the following:

- a) The total quantity of waste accepted at the site will be up to 240,000 tonnes per year.
- b) EWC code 19 12 12 consisting of ferrous materials extracted from mechanical processes containing light plastic contamination would be accepted at the site.

3. ENVIRONMENTAL RISK ASSESSMENT

An Environmental Risk Assessment has been prepared for these proposals, which forms part of the application. This considers the risks associated with the site's location and the proposed operations.

Generic risk assessment for standard rules set number SR2015 No14 v1.0

Standard Facility:	Waste Operation: Metals Recycling Site
Location:	Applies to all potential locations.
Location of environmentally sensitive sites (km / m):	Greater than 50m (see below)
Risk assessment carried out by:	Environment Agency
Date:	31-Jul-15

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

Parameter 1	Permitted activities - The storage of waste (R13) and treatment consisting only of sorting, separation, grading, shearing, shredding, baling, compacting, crushing, granulating and cutting ferrous metals or alloys and non-ferrous metals into different components for recovery (R4)
Parameter 2	Permitted waste types - Ferrous metals or alloys and non-ferrous metals
Parameter 3	Quantity of waste accepted at the facility: <75,000 tonnes per annum.
Parameter 4	Lead acid batteries shall be stored in containers with an impermeable, acid resistant base and a lid to prevent ingress of water, no m
Parameter 5	All waste shall be treated on an impermeable surface with sealed drainage system.
Parameter 6	All waste shall be stored on an impermeable surface with sealed drainage system, except for uncontaminated ferrous metals wastes or alloys and uncontaminated non-ferrous metal wastes which shall be stored on hardstanding or an impermeable surface with sealed drainage system.
Parameter 7	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 8	The permitted 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 9	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.

Abbreviations:

SR - Standard Rule
SR (emissions of substances not controlled by emission limits) - emissions of substances shall not cause pollution, with appropriate all treatment on an impermeable surface with sealed drainage system;
all storage on an impermeable surface with sealed drainage system, except for uncontaminated metals on hard standing or on impermeable surface with sealed drainage;
lead acid batteries in containers with an impermeable, acid resistant base and a lid.

Data and information				Judgement				Action (by person)
Receptor	Source	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management
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?
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, powders or loose fibres so only a medium magnitude risk is estimated. There is potential for exposure if anyone is living or working close to the site (apart from the operator and employees)	SR - emissions of substances not controlled by emission limits. SR (if required) - emissions management plan.
Local human population	As above	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Medium	Low	Low	Local residents often sensitive to dust.	SR - emissions of substances not controlled by emission limits. SR (if required) - emissions management plan.
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.	SR - emissions of substances not controlled by emission limits. SR (if required) - emissions management plan.. Appropriate measures could include

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.	SR - emissions of substances not controlled by emission limits. SR (if required) - emissions management plan. Appropriate measures could include clearing litter arising
Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Low	Low	Low	Local residents often sensitive to odour, however permitted waste types have low odour potential.	SR - emissions shall be free from odour. SR (if required) - odour management plan.
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	SR - emissions shall be free from noise and vibration. SR (if required) - noise and vibration management plan.
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	Low	Permitted wastes unlikely to attract scavenging animals and birds but may become nesting / breeding sites.	SR - emissions of substances not controlled by emission limits (including those from scavenging animals, scavenging birds and other pests) shall not cause pollution.
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Low	Medium	Low	Permitted wastes unlikely to attract pests.	SR - emissions of substances not controlled by emission limits (including those from scavenging animals, scavenging birds and other pests) shall not cause pollution.

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	Low	Medium	Low	Permitted waste types washed off site will add to the volume of the local post-flood clean up workload, rather than the hazard.	SR - management system (will include flood risk management).
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 security measures at these facilities are normally good to prevent theft. Apart from lead acid batteries, all permitted waste types are non hazardous, so only a medium magnitude risk is estimated.	SR - activities shall be managed and operated in accordance with a management system (will include site security measures to prevent unauthorised access).
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	Site security measures at these facilities are normally good to prevent theft. Apart from lead acid batteries, all permitted waste types are non hazardous, so only a medium magnitude risk is estimated.	As above. SR - management system (will include fire and spillages).
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.	Low	Medium	Low	Risk of accidental combustion of waste is low.	As above (excluding comments on access to waste). Permitted activities do not include the burning of waste.

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.	Low	Low	Low	Apart from lead acid batteries and liquid residues, all permitted waste types are non hazardous solids so only a low magnitude risk is estimated. There is potential for contaminated rainwater run-off from wastes stored outside buildings especially during heavy rain.	SR - All liquids shall be provided with secondary containment (applies to wastes and non- wastes such as fuels). Run-off restricted by SR (emissions of substances not controlled by emission limits).
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	Apart from lead acid batteries and liquid residues, all permitted waste types are non hazardous solids so only a low magnitude risk is estimated. There is potential for contaminated rainwater run-off from wastes stored outside buildings especially during heavy rain. Harm is likely to be temporary and reversible.	SR - All liquids shall be provided with secondary containment (applies to wastes and non- wastes such as fuels). Run-off restricted by SR (emissions of substances not controlled by emission limits).
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.	Low	Low	Low	Apart from lead acid batteries and liquid residues, all permitted waste types are non hazardous solids so only a low magnitude risk is estimated. There is potential for	SR - All liquids shall be provided with secondary containment (applies to wastes and non- wastes such as fuels). Run-off restricted by SR (emissions of substances not controlled by emission limits).

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	There is a potential for contaminated rainwater run-off or leakage from permitted waste types.	SR - All liquids shall be provided with secondary containment (applies to wastes and non-wastes such as fuels). Run-off restricted by SR emissions of
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	Unlikely to occur, but might restrict recreational use.	SR - emissions of substances not controlled by emission limits SR (if required) - emissions management plan.
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Low	Medium	Low	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).
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.	SR - Limit in SR of annual tonnage to 75,000 tonnes. Requirement for Fire Prevention Plan which will limit storage times of waste

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 per 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.	SR - Requirement for Fire Prevention Plan
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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



ore than 50 tonnes at any one time.

measures:

Residual risk
What is the magnitude of the risk after management? (This residual risk will be controlled by Compliance Assessment).
Low
Very low
Very low

Low					
Low					
Low					
Very low					
Very low					

Very low			
Low			
Low			
Low			

Very low			
	Low		
		Very low	

Low			
Very low			
Low			
Low			

Low



List of Waste Codes

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EWC Code	Waste Categories
02 01 10	waste metal
12 01 01	ferrous metal filings and turnings
12 01 03	non-ferrous metal filings and turnings
15 01 04	metallic packaging
16 01 17	ferrous metal
16 01 18	non-ferrous metal
17 04 01	copper, bronze, brass
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
19 01 02	ferrous materials removed from bottom ash
19 10 01	Iron and steel waste
19 10 02	non-ferrous waste
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 12	ferrous materials extracted from mechanical processes containing light plastic contamination
20 01 40	metals

