

Generic risk assessment for standard rules set number SR2008No9 v5

Standard Facility:	Waste Operation: Asbestos Waste Transfer Station
Location:	3Sixty Waste Management Ltd
Location of environmentally sensitive sites (km / m):	N/A
Risk assessment carried out by:	Paul Cassemis
Date:	05th April 2016

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

Parameter 1	Permitted activities - The storage of asbestos waste (D15) - small quantities of asbestos containing wastes received at the facility from vehicles and placed directly into a sealed skip
Parameter 2	Permitted waste types - Asbestos containing wastes
Parameter 3	Quantity of waste accepted at the facility; less than 3,650 tonnes per annum, (not more than 10 tonnes per day of asbestos).
Parameter 4	The quantity of asbestos containing waste stored at the facility shall not be more than 10 tonnes
Parameter 5	Asbestos waste shall be double-bagged or securely wrapped and stored within secure lockable containers which are locked when not being loaded.
Parameter 6	Asbestos waste shall be stored on an impermeable surface with sealed drainage.
Parameter 6	The only point source discharges to controlled waters or groundwater, are surface water from the roofs of buildings and from areas of the facility used for the storage of wastes, subject to filtering.
Parameter 9	The activities shall not be carried out on or immediately adjacent to a European Site (candidate or Special Area of Conservation,

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).

Proposed Change

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Employees	Asbestos fibres	Respiratory illness i.e. lung cancer and mesothelioma	Air transport or via physical contact then inhalation	Low	High	Medium	Potential for exposure is low because all asbestos containing materials received will be double bagged or securely wrapped and sealed with HD polythene and 75mm cloth tape.	SR100 Half Face Masks to be worn. Asbestos Medical to be carried out every 2 years. Asbestos training to be given to persons / employees.	Low	Justification for magnitude amended	
Local human population	Releases of particulate matter (dusts)	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Low	Low	Low	The only permitted waste types are asbestos (see above) so the only source of dust is ancillary activities such as vehicle movements. The potential for exposure is low for anyone living or working close to the site (apart from the operator and employees)	Double Bagged asbestos waste will be sprayed with a dust suppressant solution if required.	Very low		
Local human population, livestock and wildlife	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Low	Medium	Medium	All wastes will be received bagged or wrapped and sealed. Local residents often sensitive to litter.	As above. Appropriate measures could include clearing litter arising from the activities from affected areas outside the site.	Very low		Probability of exposure amended from medium to Very 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	All wastes will be received bagged or wrapped. Road safety, local residents often sensitive to mud on roads.	Site surfaces are concrete, no mud / debris nearby. Vehicles enter / leave the site via controlled security access gate then via the industrial estate entrance which adjoins the bypass. Vehicles do not pass through any built up public areas.	Low		

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Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation	Low	Low	Low	Local residents often sensitive to odour, however asbestos wastes unlikely to cause odour.	No odours /emissions will be permitted. As above.	Very 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	SR - emissions shall be free from noise and vibration..... SR (if required) - noise and vibration management plan.	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	Low	Low	The only permitted waste types are asbestos and will not attract scavenging animals and birds	SR - emissions of substances not controlled by emission limits (including those from scavenging animals, scavenging birds and other pests) shall not cause pollution....	Very Low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Low	Low	Low	The only permitted waste types are bagged or wrapped asbestos which will be stored in a locked skip so will not attract	As above	Very Low
Local human population and local environment	Flooding of site	If wastes are washed off site it may contaminate other areas.	Flood waters	Low	Low	Low	The only permitted waste types are bagged or wrapped asbestos which will be stored in a locked skip so a low risk is estimated.	Management system (will include flood risk management).	Very low

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Local human population and / or livestock gaining unauthorised access to the waste operation	All on-site hazards: wastes; machinery and vehicles.	Bodily injury Respiratory illness i.e. lung cancer and mesothelioma	Direct physical contact with machinery or asbestos	Medium	Medium	Medium	The only permitted waste types are are bagged or wrapped asbestos containing waste which are stored within a locked skip.	Activities shall be managed and operated in accordance with a management system (will include site security measures to prevent unauthorised access). Access to hazardous waste restricted by (asbestos). 24hr security patrols the site. Access to the site is restricted to unauthorised access by security access gate. No public access allowed on site.	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	Low	Low	The only permitted waste types are are bagged or wrapped asbestos containing waste which are stored within a locked skip. There are no sludges or liquids and little combustible material therefore only a low magnitude risk is estimated.	As above. Management system (will include fire and spillages). Spread of fire to hazardous waste restricted by (asbestos).	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	Low	Low	As above	As above. Permitted activities do not include the burning of waste.	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 surfaces, ditches etc.	Low	Medium	Low	There is low potential for contaminated rain water run-off from stored asbestos containing wastes as (i) all wastes will be bagged, or (ii) wrapped and stored in a locked skip..	All liquids shall be provided with secondary containment.... (applies to non-wastes such as fuels). Run-off restricted by on emissions of substances not controlled by emission limits with appropriate measures: storage & treatment on an impermeable surface.	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	Low	Low	Low	The only permitted waste types are bagged or wrapped asbestos containing waste which are stored within a locked skip. There is very low potential for contaminated rain water run-off from stored asbestos wastes and 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.	Low	Medium	Low	There is low potential for contaminated rain water run-off from stored asbestos wastes.	As above	Low

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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.	Emissions of substances not controlled by emission limits....(if required) - emissions management plan.	Low
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Low	Medium	Low	These waste operations will not contain significant amount of biodegradable material and will be received in bags or wrapped and sealed so very unlikely cause harm to and deterioration of nature conservation sites.	Emissions of substances not controlled by emission limits- activities shall not be carried out on or immediately adjacent to a European Site or SSSI.	Low
Unauthorised Access to site.	Any	Harm may be caused to unauthorised persons.	Any	Low	Medium	Low	Site access is restricted to unauthorised persons. 24hr Manned security lodge with barriers allowing access to the site prevent unauthorised access. 24hr Security is present on site at all times. Skip area will have a secondary boundary HERAS fencing with lockable access gate.	Emissions of substances not controlled by emission limits- activities shall not be carried out on or immediately adjacent to a European Site or SSSI.	Low

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Nearest River / Natural Source (River Ebbw)	Any	Harm may be caused to wildlife/ pollution of river with asbestos.	Flooding	Low	Medium	Low	River Ebbw is approx 50m metres from site. River Ebbw is approx 10 metres below (depth) from the ground level. Throughout history there have been no recorded instances of flooding. Asbestos waste bags will be double bagged and placed in lockable secure 35 cubic yard enclosed waste skip.	Daily monitoring of site conditions including depth of river /rainfall. Information to be recorded on daily site diary- Doc 011.	Low
Local human population / Employees	Asbestos - split waste bag / wrap.Protruding sharp objects.	Harm to human health - skin damage or gastro-intestinal illness.	Direct contact or ingestion. Exposure to the environment.	Medium	Medium	Medium	Should a waste bag /wrap be found to have a hole /tear it will be immediately taped over using 75mm ploycloth tape. Surrounding area will be vacuum cleaned with H-Type vacuum cleaner with current DOP test certificate. LI incidents will be recorded in the daily site diary- Doc 011. NRW will be notified as required.	Visual inspection will be carried out upon receipt of asbestos waste bags/ wraps. Site surfaces are concrete, no mud / debris nearby.	Very Low
Local human population / Employees	Noise from machinery.	Noise from machinery	Hearing & noise pollution.	Medium	Medium	Low	No noise produced from proposed activities on site. Only noise source will be from entry /exit of vehicles which will be well below 80 decibels.	Management procedures will be followed daily. Works will be carried out during working hours.	Low

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Local human population / Employees / Environment	Poor housekeeping.	Slips, trips & falls. Potential for litter /debris to be blown around site.	Pollution.	Medium	Medium	Low	Any general waste produced will be stored on in the site general waste bin.	Management procedures will be followed. Bins will be emptied daily. Toolbox talks will be carried out and recorded.	Low
Local human population / Employees / Environment	Storage of liquids on site	Potential for contamination.	Pollution / Contact	Medium	Medium	Low	No liquids will be stored on site. - Should liquids need to b e on site then COSHH data sheets will be obtained.	No liquids will be stored on site.	N/A
Local human population / Employees / Environment	Unauthorised Waste	Potential for contamination.	Pollution / Contact	Medium	Medium	Low	All waste contents are examined on arrival and during initial transfer operations. Where a load is suspected of containing waste other than permitted at the WTS, the load will be rejected and advice will be given to the nearest permitted facility.	Management procedures will be followed.	Low

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Local human population / Employees / Environment	Untrained Personell	Potential for contamination to persons /environment	Pollution / Contact	Medium	Medium	Low	SR100 Half Face Masks to be worn. Asbestos Medical to be carried out every 2 years. Asbestos training to be given to persons / employees. Toolbox talks will be carried out. Management / audits both internal & external will be carried out.	Management procedures will be followed.	Low
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