

MEKATEK LTD – TRANSFER/TREATMENT EP RISK ASSESSMENT - 2016 Data and information									
Receptor	Source	Harm	Pathway	Probability of exposure	Judgement		Action (by permitting)		Residual risk
	What is at risk? What do I wish to protect?	What are the harmful consequences if things go wrong?	How might the receptor come into contact with the source?	How likely is this contact?	Consequence	Magnitude of risk	Justification for magnitude	Risk management	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).	Harm to human health - respiratory irritation and illness.	Air transport then inhalation.	Low	Low	Low	Permitted waste types do not include - dusts, powders or loose fibres but the treatment activities may produce particulate matter which will be contained on site. There is no potential for exposure to those who live or work close to the site.	Emissions of substances are not controlled by emission limits but contained within the building. An emissions management plan will be prepared where long term increases in particulate levels are determined - treatment of low risk wastes shall be carried out inside the building and thus will not affect any AQMA designated for PM10.	Low

Local human population	As above	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Low	Low	Local residents often sensitive to dust.	As above and activities performed within the building	Low
Local human population, livestock and wildlife.	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Low	Low	Local residents often sensitive to litter.	As above. Appropriate measures could include clearing litter arising from the activities from affected areas outside the site.	Low
Local human population	Waste, litter and debris on local roads	Nuisance, loss of amenity, road traffic accidents.	Vehicles entering and leaving site.	Low	Low	Road safety, local residents often sensitive to debris on roads.	As above. Appropriate measures could include clearing waste, litter and mud arising from the activities from affected areas outside the site.	Low
Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Low	Low	Local residents often sensitive to odour.	No emissions/odours expected as activities performed within the building. An odour management plan may be prepared if required. Any emissions controlled within building.	Low

Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Low	Low	Low	Local residents often sensitive to noise and vibration	No emissions expected from noise and vibration as activities within a building a safe distance from occupation. If required a noise and vibration management plan may be prepared and action taken. Any emission controlled within building.	Low
Local human population	Scavenging animals and scavenging birds	Harm to human health - from waste carried off site. Nuisance and loss of amenity.	Air transport and over land	Low	Low	Low	Permitted wastes stored within the building with low-risk wastes stored outside which may become nesting / breeding sites. Waste types are unlikely to attract wildlife.	Only low risk HIC wastes accepted - Any emissions controlled within building. Pest control to be used and site to be monitored by site personnel.	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	Any Permitted low-risk wastes stored outside which could cause breeding particularly in summer months	Only low risk HIC wastes accepted. No putrescible wastes expected. Pest control to be used.	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	Low	Low	Low	Low	Permitted waste types are stored within the building and thus non-hazardous so any waste washed off site will add to the volume of any local post-flood clean-up workload, rather than the hazard.	Low risk and non-polluting wastes potentially stored outside of building may be washed off site but other waste types are restricted/controlled by being contained within the buildings. All liquids e.g. fuels shall be provided with secondary containment.	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	Low	Low	Low	Low	Permitted waste types are non-hazardous excepting solid WEEE so only a Low magnitude risk is estimated.	Activities shall be managed and operated in accordance with a management system (will include site security measures to prevent unauthorised access). Access to waste restricted and any emissions of substances controlled within the building.	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.	Low	Low	Low	Low	Permitted waste types do not include sludges or liquids and are non-hazardous excepting solid WEEE so only a Low magnitude risk is estimated.	Management system (will include fire, spread and spillages) with wastes being stored within building and contained. Any emissions of substances contained. Restricted external storage of low risk wastes.	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.	Low	Low	Low	Low	Risk of accidental combustion of waste is low due to restricted waste types.	As above (excluding comments on access to waste). Permitted activities do not include the burning of waste.	Low
All surface waters close to and downstream of site.	Spillage of liquids, any 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	Low	Permitted waste types do not include sludges or liquids so only a Low magnitude risk is estimated. There is a low potential for contaminated rainwater run-off from wastes stored outside buildings.	All liquids shall be provided with secondary containment (applies to non- wastes such as fuels). Storage upon concrete with spillage control as EMS. Run-off restricted by emissions of substances not controlled by emission limits - buildings.	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/hardstanding layer/areas	Low	Low	Low	Waste types are non-hazardous except solid WEEE so any 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	Low	Low	As above. There is a minor potential for contaminated rainwater run-off or leachate from low risk permitted waste types potentially stored outside of building.	As above. Wastes and activities stored/operated within the building.	Low
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Low	Low	Low	Waste operations may cause harm to and deterioration of nature conservation sites.	Activities and wastes stored within the building and monitored by site personnel. Low potential for harm from any materials stored outside of the building.	Low