

Data and information				Judgement				Action (by permitting)	
Source	Harm	Pathway	Receptor	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management	Residual risk
<i>What is the agent or process with potential to cause harm?</i>	<i>What are the harmful consequences if things go wrong?</i>	<i>How might the receptor come into contact with the source?</i>	<i>What is at risk? What do I wish to protect?</i>	<i>How likely is this contact?</i>	<i>How severe will the consequences be if this occurs?</i>	<i>What is the overall magnitude of the risk?</i>	<i>On what did I base my judgement?</i>	<i>How can I best manage the risk to reduce the magnitude?</i>	<i>What is the magnitude of the risk after management?</i>
Dust/Particulates									
Particulate matter and dusts from delivery, dispatch, handling and treatment of wastes (non-hazardous and hazardous paints), including trafficked mud and debris to facility loading/unloading area	Harm to human health – respiratory irritation and illness.	Air transport, deposition then inhalation.	Local human population <i>(R1, R2, R3, R4)</i>	Low	High	Moderate	Wastes will not consist solely or mainly of dusts, powders or loose fibres. Areas of human occupation more than 200m distant from the paint blending and stripping facility. Transient nature of site users at the HCI WTTF.	All delivery and dispatch vehicles to be sheeted or fully enclosed. Vehicles will be supervised during loading to ensure that they are not overfilled.	Low
	Nuisance – dust on property, clothing etc.	Air transport then deposition	Local human population <i>R1, R2, R3, R4)</i>	Low	Moderate	Low–Moderate	Adjacent woodland located in intervening space between the facility and closest local residential properties, acting as a screen.	Impermeable concrete installed in loading bay to prevent tracking of dusts on vehicles. Wider waste management facility roads comprise concrete hardstanding and are kept free from mud and debris	Very Low
	Smothering of habitats and crops	Air transport then deposition	Local wildlife habitats/species <i>(R7, R8)</i>	Low	Low	Low	Wastes will not consist solely or mainly of dusts, powders or loose fibres. Receptor R7 located to the south east of the facility, prevailing wind blows towards the north east/east.	The wastes accepted at the facility (non-hazardous and hazardous waste paints) are not generators of particulates or dust emissions. The paint stripping facility comprises an entirely contained process. Vacuum/scooping techniques will be employed in the enclosed environment to remove shot/paint residue and minimise dust generation. Storage of incoming/outgoing waste paints is internal. Daily inspection of the site for aerial emissions will be performed as part of the management procedures. Vehicle speed limits will be imposed to prevent dust arising	Low

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Odours									
Odours from delivery and dispatch of wastes/materials Handling, treatment and storage of waste paint	Nuisance, loss of amenity	Air transport then inhalation.	Local human population (R1, R2, R3, R4)	Low	Moderate	Low-Moderate	Site located in rural setting within larger waste management facility. Olfactory monitoring will be carried out by trained operatives within the vicinity of the paint reuse and shot blasting facility and other areas of the HCI WTTF site throughout the day. Areas of human occupation more than 200m distance from the paint reuse and shot blasting facility. Transient nature of site users at the local HCI WTTF. Processing container sides comprise permeable side walls to allow for adequate ventilation. The quantity paint handled at any one time will not result in significant odour emissions.	All wastes loads delivered and dispatched from the site will be sheeted or fully enclosed. All wastes to be inspected prior to acceptance at the site. Operational staff to be trained to assess odour generation at the site throughout the working day. Further olfactory assessment to be carried out daily by the Site Manager. Paints will be stored in sealed pots, internally, prior to treatment. The paint stripping operation comprises an entirely contained process. Accepted waste types will be no more odorous than the waste types accepted at the adjacent operational landfill and MRF's.	Low

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Litter									
<p>Litter within waste accepted at the site</p> <p>Tracking of mud and debris onto public roads causing accident, hazards and nuisance to road users.</p>	<p>Nuisance, loss of amenity, road traffic accidents and harm to animal health</p>	<p>Vehicles entering and leaving site.</p> <p>Air transport and then deposition</p>	<p>Local human population, livestock and wildlife. Local road users.</p> <p>(R1, R2, R3, R4, R5, R6, R9)</p>	Very Low	Moderate	Low	Minimal potential for litter generation due to the types of waste accepted on site.	<p>Paints will be stored in sealed pots, internally, prior to treatment.</p> <p>All waste treatment operations conducted within an adapted container with passive ventilation through permeable side walls or in an enclosed booth, preventing the escape of any potential litter.</p> <p>Strict compliance with waste acceptance procedures will be required at all times.</p> <p>Good housekeeping will be promoted in order to keep storage areas as clean as possible.</p> <p>All deliveries or dispatches of waste to be sheeted or enclosed.</p> <p>All vehicles to be inspected prior to leaving site.</p> <p>Internal roads will comprise hard surfacing to minimise tracking of mud and debris onto public roads.</p> <p>Security fence to be maintained around facility to prevent litter escaping and daily litter inspections carried out on site.</p> <p>The site entrance and boundaries will be inspected daily for evidence of litter .</p> <p>Wider site entrance to be mechanical swept to remove mud and debris deposited, if necessary. Litter picking to be carried out on signs of litter generation. The source of any litter will also be investigated and remedied.</p>	Low

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Mud and Debris									
Waste debris and mud on local roads Tracking of mud and debris onto public roads causing accident, hazards and nuisance to road users.	Nuisance, loss of amenity, road traffic accidents and harm to animal health	Vehicles entering and leaving site.	Local human population, road users. Fugitive emissions to surrounding land. (R1, R6, R9)	Very Low	Moderate	Low	Access road serving the wider waste management operations will be utilised prior to vehicles existing onto the A48. Waste types do not present potential significant source of mud and debris.	All deliveries or dispatches of waste to be sheeted or enclosed. Vehicles will be supervised during loading to ensure that they are not overfilled. All vehicles to be inspected prior to leaving site. Daily inspection of the site for mud and debris will be performed as part of the management procedures. Internal roads will comprise hard surfacing to minimise tracking of mud and debris onto public roads. Site entrance to be mechanically swept to remove mud and debris deposited.	Negligible
Scavengers and Pests									
Scavenging animals and scavenging birds, Pests (e.g. flies) attracted to or infesting wastes	Harm to human health – from waste carried off site and faeces. Nuisance and loss of amenity. Negative effects on habitats and crops	Air transport and over land.	Local human population, crops and local habitats (R1, R2, R3, R4, R5, R7, R8)	Very Low	Low	Very Low	Permitted waste types to be treated unlikely to attract scavenging animals and birds.	Waste types accepted for processing are generally not of the type that could attract scavengers. All vehicles hauling waste will be sheeted/netted or fully enclosed. Strict compliance with waste acceptance procedures will be required at all times. Good housekeeping will be promoted in order to keep storage areas as clean as possible. Daily inspection of the site for scavenging animals and birds will be performed as part of the management procedures. Regular visits from a registered pest controller can be programmed, if required.	Negligible

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Noise & Vibration									
Noise and vibration caused by paint reuse facility process or shot blasting facility, as well as lorry movements etc.	Nuisance, loss of amenity, loss of sleep or harm.	Noise through the air and vibration through the ground.	Local human population (R1, R2, R3, R4)	Low	Low	Low	Areas of human occupation more than 200m distant from the paint blending and stripping operations. Transient nature of site users at the local HCI WTTF. Adjacent woodland located in intervening space between the facility and closest local residential properties, acting as a screen. Site is located in a rural area. Waste management operations in this area have been long established.	All machinery used on site will be operated and maintained in accordance with manufacturers' recommendations; Site activities will be restricted to sociable hours when background noise levels are appreciably higher; Paint stripping process entirely contained, affording attenuation to noise. Site located within established waste management facility. Noise levels will not be appreciably higher than current background levels. The site has its own dedicated access road leading from the A48, which does not directly pass any potentially sensitive receptors. Speed limits are imposed for vehicles travelling on site. Further noise mitigation measures can be applied if found to be necessary.	Low

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Water									
Contaminated surface water	Harm to local environment via contaminated surface water runoff	Run off from processing and unloading areas.	Infiltration to surrounding land. Groundwater. Tributary of Afony-Bantwen (R7, R8)	Very Low	Low	Low	<p>Paint blending and stripping operations sited on kerbed impermeable pavement with sealed drainage.</p> <p>No direct drainage routes between operational areas and receptors.</p>	<p>Written waste acceptance procedures in place to prevent the acceptance of contaminated wastes.</p> <p>All operations to be carried out on impermeable pavement. Storage and treatment operations to be carried out in enclosed units.</p> <p>All equipment will be maintained in accordance with manufacturers recommendations.</p> <p>All handling of waste paint conducted in adapted container, over dedicated drip tray flooring.</p> <p>Spill kits and absorbent material available for immediate deployment should there be any spillages of paint in the unloading/loading bay.</p> <p>Materials will arrive, be stored and be transferred off-site within packaging (paint pots).</p> <p>All concreted areas will be maintained in a safe condition to provide impervious surface that facilitates everyday cleaning.</p> <p>Surfaces will be inspected and maintained at regular intervals and any defects or damage will be repaired.</p> <p>Good housekeeping will be promoted in order to keep storage, processing and unloading/loading areas as clean as possible.</p>	Very Low