

Environmental Risk Assessment										
Facility:						Lloyds Metals Limited				
Location:						Raikes Clough Industrial Estate, Raikes Lane, Bolton, BL3 1RP				
Risk Assessment Carried Out By:						AC Environmental Consulting Ltd				
Date:						29th June 2020				
Date & Information				Judgement						
Receptor	Source	Harm	Pathway	Probability of Exposure	Consequence	Magnitude of Risk	Justification for Magnitude	Risk Management	Residual Risk	
Local Human Population	Dust & Bioaerosols	Harm to human health - respiratory illness	Air Transport then inhalation	Low	Medium	Medium	Permitted waste types received are wastes with minimal potential for dust or potential to degrade meaning that the risk of dust being produced is solely in relation to movements on the concrete yard surface.	Dust suppression on site to be carried out by mechanical sweeper and where needed, the mobile mister and hoses. Procedures are incorporated into the site management plan and the dust and emissions management plan (DEMP).	Low	

Local Human Population	As above	Nuisance - dust on clothing, cars etc	Air Transport then deposition		Low	Medium	Medium	There are residential properties close to the north east of the site. It is crucial to note, as stated within the DEMP, that the site is located within an industrial estate with additional industrial businesses which have the potential to produce dust. However as detailed above, there are no pollution pathways which exist to create nuisance and noticeable amounts of dust.	As above	Low
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Local Human Population , Livestock and Wildlife	Litter	Nuisance - loss of amenity and harm to animal health	Air Transport then deposition	Medium	Low	Low	There are residential properties close to the north east of the site and within the range to be affected by the waste type if windblown. Livestock could potentially graze within 500m of the site.	In windy periods litter will be contained by the site perimeter. Site fencing is variable between 3-4m of brick walls to form an effective litter barrier. Procedures in site management plan detailed actions to be taken by site staff to inspect the site daily and to deal with litter as it arises.	Low
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Local Human Population	Waste, litter and mud on roads	Nuisance, loss of amenity and road traffic accidents	Vehicles entering or leaving the site	Medium	Low	Low	<p>The site is fully concreted. Therefore all operating plant or outgoing vehicles operate on site without picking up any mud. Transference of residual waste, litter and mud may occur during various industrial operations. However, the nature of the operations (mostly scrap metal) will mean that the site is much less likely to present this type of problem. The condition of the road and road safety is aided by the sites traffic management plan. The traffic management plan is subject to annual review or where incidents occur.</p>	<p>As above, plus a road sweeper will be employed to sweep concreted areas of the site and adjacent roads as conditions require.</p>	Low
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Local Human Population	Noise and vibration	Nuisance, loss of sleep and amenity	Noise through the air and vibration through ground		Low	Low	Low	There are residential properties close to the north east of the site. The Environmental Management System contains procedures to manage noise emanating from site operations. The activities carried out on site are generally low audible volume activities.	Ensure site operations remain fully in accordance with the EMS. Due to the nature of the plant on site and distances involved it is not believed that vibration will be an issue.	Low
Local Human Population	Odour	Nuisance and Loss of Amenity	Air transport then inhalation		Very Low	Low	Low	Permitted Waste Types do not include food wastes, sludges or liquids which are likely to give rise to odours	Not significant if managed in accordance with the management plan and odour management plan (OMP).	Low
Local Human Population	Scavenging birds and animals	Harm to human health - waste carried offsite and faeces; nuisance and loss of amenity	Air transport and over land		Low	Low	Low	Permitted waste types are unlikely to attract birds or animals.	Site activities, types of waste and low residence time on site will deter the use of stockpiles as nesting habitat.	Low

Local Human Population	Pests	Harm to human health; nuisance and loss of amenity	Air transport and over land		Medium	Low	Low	Insects can multiply rapidly in certain conditions	Site activities, types of waste and low residence time on site will deter the use of stockpiles by pests such as rats and will prevent infestation by insects occurring	Low
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Local Human Population & local environment	Flooding of the site	If wastes are washed off this may contaminate other buildings or habitats downstream	Flood waters	Low	Medium	Low	<p>The site is not within a flood zone; the site topography (sloping down to the south east corner where there are surface drains and kerbing) reduces the risk of flooding. Floodwater on site would flow towards the surface drains in the south east corner and drain through the interceptor into the public sewer. The kerbing will contain any flood water in this area. Permitted waste types are kept in discrete stockpiles, some indoors and some in 40cyd RoRo skips; with the exception of loosely stored steel and input steel. Scrap metal is very unlikely to move off-site in event of a flood but contaminants from metals may do so. Flood water will not be contaminated by the site due to flood prevention measures in place and its location</p>	<p>The site is located in a Flood Zone 1, and is therefore at a very low risk of flooding. There is a sealed drainage system in place to direct runoff away from the site into the public sewer. There are no historic records of any flooding.</p>	Low
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							outside of the flood zone			
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Local Human Population	All onsite hazards; wastes, machinery and vehicles	Bodily injury	Direct Physical contact	Medium	Medium	Medium	Permitted Waste types include hazardous materials such as batteries and ELVs. Under normal circumstance no direct contact with the hazardous elements of these is possible and so only a medium risk is envisaged. There is machinery and plant used on site. Any site machinery that is purchased will be enclosed in accordance with HSE requirements.	Handling of hazardous wastes and non conforming wastes are subject to procedures in the site management plan. Site has excellent security and has not experience and vandalism, thefts or attempted break ins.	Low if managed in accordance with procedure.
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<p>Local Human Population & local environment</p>	<p>Arson and/or vandalism causing the release of polluting materials to air, water or land.</p>	<p>Respiratory irritation/illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandalists. Pollution to water or land.</p>	<p>Air transport of smoke. Spillages and contaminant run-off.</p>		<p>Low</p>	<p>High</p>	<p>Medium</p>	<p>Permitted waste types are both hazardous and non-hazardous and the greater part of the wastes handled on site are non-hazardous and non-combustible. Some wastes such as ELVs obviously have a higher potential for fire and these are segregated from other operations and subject to procedures in the site management plan to ensure the safe and efficient handling of the wastes. Site security is comprehensive due to the valuable nature of the products and consists of a CCTV system. The system is monitored and police would be alerted within minutes of an alarm activation.</p>	<p>Activities shall be managed and operated in accordance with the Environmental Management System (which includes site security measures to prevent unauthorised access) and the approved Fire Prevention Plan.</p>	<p>Low.</p>
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Local Human Population & local environment	Accidental fire causing the release of polluting materials to air, water or land.	Respiratory irritation/illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandal s. Pollution to water or land.	Air transport of smoke. Spillages and contaminant run-off.	Low	High	Medium	The greater part of wastes handled on site are non-combustible. Some wastes such as ELVs have a higher potential for fire and these are segregated from other operations and subject to procedures in the site management plan to ensure the safe and efficient handling of the wastes. However, in the event of a fire the vicinity of the site, nearby receptors would be at risk to smoke transported by prevailing winds. The smoke could greatly reduce the vision of drivers on Raikes Industrial Estate and the residential streets and cause a potential road collision accident.	As above. Activities will be managed in accordance with the environmental management system (which includes fire and spillages) and the approved Fire Prevention Plan. Permitted activities do not permit the burning of wastes and site procedures restrict hot works, smoking etc to further reduce risk of accidental fire.	Low if managed in accordance with the site management plan.
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All surface waters close to and downstream of site	Spillage of liquids, leachate from waste, contaminated run-off	Acute effects: Oxygen depletion, fish kill and algal blooms	Direct run off from site across ground surface, or via drains.		Low	Medium	Low	Permitted waste types do not include liquids or sludges. Small quantities of oils from ELVS (less than 10000l) are held in double bunded tanks on site. The site is covered in a concrete surface which drains to surface drains connected to and interceptor at the south eastern end of the site.	All liquids on site such as engine oils etc are stored indoors or in suitable lockable containers away from other site operations. A spillage control procedure forms part of the site management plan.	Low if managed in accordance with the site management plan.
All surface waters close to and downstream of site	As above	Chronic effects: deterioration of water quality	As above		Low	Medium	Low	As above.	As above.	Low.

<p>Abstraction from watercourse downstream of facility (for agricultural use or potable use)</p>	<p>As above</p>	<p>Acute effects: Closure of abstraction intakes</p>	<p>Direct runoff from site across ground surface, or via drains then abstraction</p>	<p>Medium</p>	<p>Low</p>	<p>Low</p>	<p>Water course must have high flow for abstraction to be permitted which would reduce effects through dilution. Boreholes are unlikely to be affected by surface water runoff.</p>	<p>The site upholds several measures to prevent contaminated rainwater run-off or leachate from waste. All waste storage and depollution activity occurs on concrete surfacing on site. Waste oils are stored in sealed bunded tanks. The site's topography sloping down to the surface drains and kerbing in the south eastern corner reduces the risk of runoff. Floodwater on site would flow towards the surface water drains that are connected to an interceptor in the south east corner.</p>	<p>Low if managed in accordance with the site management plan.</p>
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Groundwater	As above	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole	Transport through soil/ground then extraction at borehole		Low	Low	Low	There is no potential for contaminated rainwater run-off or leachate from permitted waste types.	As above, plus procedures in the Management System will effectively mitigate this risk.	Low
Local Human Population	Contaminated water used for recreational purposes	Harm to human health - skin damage or gastro-intestinal illnesses	Direct contact or ingestion		Low	Medium	Low	There is no potential for contaminated rainwater run-off or leachate from permitted waste types.	As above, plus procedures in the Management System will effectively mitigate this risk.	Low
Protected Sites- European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering or disturbance	Any		Low	Medium	Low	There are no protected sites within a 1000m distance of the permitted site	The distance from the permitted site to an SSSI is such that it is highly unlikely that either of these sites will be affected by any proposed activity.	Low