

RISK ASSESSMENT: Environmental Risk Assessment PDA Plastics LTD, Commissioners Road, Strood, Rochester, Kent. ME20 4EB												
Hazards	Risks	Pathway	Risk to the Environment and People	Severity	Likelihood	Risk Rate	Existing measures to control risk	Severity	Likelihood	Risk Rate	Task Assessment Result	
												Release of Dust.

Severity	Example	Likelihood	Risk Rate	Key to Results
0.1	Very Low Risk	Little or no risk	0.1	T - Trivial Risk
1	Low Risk	Low risk aware but no nuisance	1	A - Adequately Controlled
2	Medium Risk	Slight inconvenience / Slight nuisance	2	N – Not Adequately Controlled – further immediate action is required
3	High Risk	Nuisance may cause potential complaints	3	

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Release of dust to surface water.	Harm to surface water features nearby ponds and the nearby river Medway.	Air transported then deposited.	Environment, Local population, onsite staff, Neighboring businesses, personnel, marine conservation zones and Tower Hill to Cockham Wood Site of Special Scientific Interest.	1	3	4	<p>Waste types accepted on site are non-hazardous and not inherently dusty. The granulation and pulverization of waste that has the potential to be dusty operations are carried out inside the buildings.</p> <p>Dusty waste for disposal is contained in bags before disposal into the waste skips.</p> <p>Granulated and Pulverized waste is stored in bulk bags the bags are sealed and covered with plastic shrouds to contain the material.</p> <p>In the event of a spillage occurring the leakage is quickly rectified and any spillage is cleaned up straight away.</p> <p>All site drainage is deposited to foul sewer. Filters are in place in the site drainage to reduce the risk of plastic dust entering the sewerage system.</p> <p>A dust management plan is in place to control the risk of dust emissions.</p> <p>Tower Hill to Cockham Wood Site of Special Interest is approximately 2000 meters away from the waste operations site, it is unlikely that any release of dust to surface water will affect this area.</p> <p>Priority habitat mudflats salt marshes and low land meadows are 380, 460 and 480 meters away considering the site drainage is only to foul sewer it is considered that these areas will not be affected from release of dust to surface water.</p> <p>Protected species associated with this area are the Lapwing and the Redshank both are birds are not affected by the nature of the waste operations carried out on site.</p>	1	1	3	A	

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Noise.	Noise nuisance and the Release of excessive noise to nearby receptors.	Operations carried out on site.	Environment, local population, Neighboring businesses and personnel.	1	2	3	PDA Plastics LTD site is on a dedicated industrial site. The site has shipping containers stacked on two sides and tall industrial buildings on the other two sides. Beyond the site boundary to the west is a chalk cliff face which acts as a natural sound barrier and screen nearby receptors. There are no residential dwellings near to the site. The site operational hours are between 0400hrs and 1600hrs. The equipment with the biggest potential to cause noise nuisance (The Shredder) which is only operated between the hours of 0800hrs to 1600hrs Monday to Friday on a minimal run time as and when required. It is considered that no noise nuisance operations are carried out at sensitive times.	1	1	3	A	
Vibration.	Ground vibrations to receptors.	Operations carried out on site.	Environment, local population, Neighboring businesses and personnel.	1	1	2	PDA Plastics site is located on an industrial estate. The site boundary has shipping containers stacked two or three high on two sides and high industrial buildings on the other two sides. The majority of waste operations are carried out inside the buildings. Shredding only takes place between the hours of 0800hrs and 1600hrs Monday to Friday on a minimal run time as and when required. It is considered that no ground vibration activities are carried out at sensitive times.	1	1	1	A	
Litter.	Nuisance to local property and local businesses.	Air transport and deposit.	Environment, Local population, Neighboring businesses and personnel.	1	1	2	The waste accepted on site is PVC window frames and offcuts which typically contains low amounts of litter. There is a very low chance that litter is generated by the acceptance of these wastes. PDA Plastics operates with a strict continues housekeeping regime where all staff are engaged and aware of the requirement to keep the site organized clean and tidy.	1	1	1	T	

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												Waste and Litter on local Roads.
Odour.	Nuisance odor's effecting receptors	Local human population, neighboring businesses and residential dwellings.	Environment, local population, Neighboring businesses and personnel.	0.1	0.1	1	No putrescible waste types are accepted on to the Site, as such it is unlikely that odour will be an issue. PVC window frame waste does not emit an odour. The implementation of strict waste acceptance criteria will ensure that no putrescible waste types are accepted onto the site. Good housekeeping methods will be actively maintained to reduce risk of odour from the site.	0.1	0.1	1	T	
Noise.	Nuisance effecting receptors.	Noise through the air.	Environment, Local population, neighbouring businesses, personnel and residential dwellings.	1	1	4	PDA Plastics site is located on an industrial estate. The site boundary has shipping containers stacked two or three high on two sides and high industrial buildings on the other two sides. It is highly unlikely that high volumes of noise travels from the site due to its proximity. The majority of waste operations are carried out inside the buildings which is a sound barrier. Shredding only takes place between the hours of 0800hrs and 1600hrs Monday to Friday on a minimal run time as and when required. It is considered that no ground vibration activities are carried out at sensitive times. PDA Plastics LTD policy is not to leave plant and equipment idling whilst not in use to reduce the amount of noise generated from the process. The noise risk assessment concludes that the noise generated from the plant is acceptable.	1	1	4	A	

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Pests.	Harm to human health - from waste carried off site and faeces. Nuisance to receptors	Air transport and overland	Nearby Local population, neighbouring business personnel and residential dwellings.	0.1	0.1	1	Proposed waste types do not contain putrescible waste and are therefore unlikely to attract pests. The Site is not likely to become breeding / nesting sites for pests. The implementation of strict waste acceptance criteria will ensure that no putrescible materials, that are attractive to pests, will be accepted on to the site. PDA Plastics operates with a strict continues housekeeping regime where all staff are engaged and aware of the requirement to keep the site organized clean and tidy. If an infestation of any type is discovered an appropriate specialist will be called to deal with the issue. A note will be made in the site diary.	0.1	0.1	1	T	
Scavenging animals and birds.	Harm to human health, nuisance to receptors.	Air transport and overland	Nearby Local population, neighbouring businesses, personnel and residential dwellings.	0.1	0.1	1	Proposed waste types do not contain putrescible waste and are therefore unlikely to attract pests, scavenging animals and birds. The Site is not likely to become breeding / nesting sites for pests, scavenging animals and/or birds. The implementation of strict waste acceptance criteria will ensure that no putrescible materials, that are attractive to scavenging species or pests, will be accepted on to the site. PDA Plastics operates with a strict continues housekeeping regime where all staff are engaged and aware of the requirement to keep the site organized clean and tidy. If an infestation of any type is discovered an appropriate specialist will be called to deal with the issue. A note will be made in the site diary.	0.1	0.1	1	T	

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0.1	Very Low Risk	Little or no risk	0.1	Very Low	Extremely unlikely to occur	1	T - Trivial Risk
1	Low Risk	Low risk aware but no nuisance	1	Low	Unlikely or slight chance of occurring	2 3 4	A - Adequately Controlled
2	Medium Risk	Slight inconvenience / Slight nuisance	2	Medium	Likely frequently /often to occur	6 8 9	N – Not Adequately Controlled – further immediate action is required
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												Flooding to the Site.	Waste being washed off site.

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Risk of injury from sharp objects when in direct contact with waste.	Bodily Injury's.	All on site Hazards machinery and vehicles.	PDA Plastics LTD Personnel and Visitors.	2	2	6	Incoming waste types are made from PVC, which does not pose a significant risk to health in terms of irritation or injury from direct physical contact. There is a chance that proposed incoming waste types could pose a risk if sharp edges are exposed or if contravening wastes are present such as sharp objects. There is a risk that sharp edges of waste or sharp objects e.g. metal could cause bodily harm during the handpicking process. Physical processing equipment on the Site could cause bodily injury if misused or if malfunctioning. Plant and equipment on the Site is regularly checked as part of the Site inspection regime. Any faults identified during these checks will be rectified by the Site Manager. The Operators and Maintenance team regularly inspect Plant / Equipment before the start of each shift and a record is kept on their production sheet. Plant / equipment is serviced and maintained following the manufacturer's requirements. Regularly servicing to plant / equipment will identify and rectify issues before they potentially cause a malfunction. Personnel and Visitors are required to wear the appropriate PPE at all times. Accident and incident procedures can be found in PDA Plastics QMS. All Personnel are trained and issued with the required PPE for there specific jobs. Site visitors are informed of the site PPE requirements before entering site and PDA Plastics LTD operates a zero-tolerance policy with regards to the site rules.	1	1	4	A	

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Risk of injury from inhalation of particles.	Respiratory irritation and illness.	Storage of wastes and wastes during treatment.	PDA Plastics LTD Personnel and Visitors	2	2	6	Waste accepted on site is non-hazardous. The waste treatment activities include equipment used to sort and reduce the particle size of waste e.g. granulation, pulverisation, which can generate dust. Dust can be inhaled if a person is in close proximity to the waste treatment activities. Treated waste has small particles, which when unsettled could be inhaled. Most waste treatment activities are carried out within the buildings. The buildings will screen nearby receptors from dust emissions. The fine particle size (and weight) of the waste mean that particles are likely to drop out of the air before they reach receptors. Staff carrying out waste treatment activities within buildings are required to wear PPE i.e. respirators, to prevent the inhalation of dust. Health screening and monitoring is supplied to all staff working on site in line with the Health Surveillance Procedure in the PDA Plastics LTD QMS.	1	1	4	A	

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												Arson and vandals causing the release of polluting materials to air, water and land.

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Accident of fire causing the release of polluting materials to air, water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists/vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from the Site.	Environment, Local population, neighbouring businesses, personnel, residential dwellings Marine conservation zones and Tower Hill to Cockham Wood Site of Special Scientific Interest.	0.1	1	2	The implementation of strict Waste Acceptance Procedure will ensure that no combustible waste types are accepted on to the site. Any incidental combustible waste types within incoming loads will be handpicked from the load and stored in container(s) in the quarantine area. These containers act as a fire break against ignition sources and fire spreading, which reduces the likelihood of accidental fires. The waste stored outside is incoming PVC window frames, Offcuts and frag steel which is stored in designated bays. All other wastes from the process Aluminium are stored in ro-ro skips, these wastes are not considered to be non-combustible due to the high flash point required to ignite the waste. General waste is stored in a separate Ro-Ro skip away from the production buildings. The PDA Plastics LTD FPP is in place to reduce the risk of accidental fires. All fuel and oils are contained within banded containers. Only a small amount of fuel will be stored on site. Tower Hill to Cockham Wood Site of Special Interest is approximately 2000 meters away from the waste operations site, it is unlikely that any Polluting Materials to air will affect this area. Priority habitat mudflats, salt marshes and low land meadows are 380 460 and 480 meters away considering the site drainage is only to foul sewer it is considered that these areas will not be affected from Polluting materials. Protected species associated with this area are the Lapwing and the Redshank both are birds are not affected by the nature of the waste operations carried out on site.	1	1	2	A	

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												Spillages of liquids, leachate from Waste contaminated rainwater run-off from waste.	Acute effects: oxygen depletion, fish kill and algal blooms.

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