***Recycle For Future Ltd - Environmental Risk Assessment:***

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| ***Hazard:*** | ***Receptors:*** | ***Pathways:*** | ***Control Measures:*** | ***Probability of Exposure:*** | ***Consequences:*** | ***Overall Risk:*** |
| ***Material In Transit Off Site:*** |
| **Litter** | Surrounding ground surfaces, Wildlife, People | From vehicle movements | Material is secured on pallets, in bags and/or shrink wrapped. The trailers are curtain sided or containers with doors to prevent spills. Skips are covered over when waste is in transit to prevent escape | Unlikely | Land pollution | **Low** |
| ***Loading / Unloading Vehicles:*** |
| **Dust** | Surrounding ground surfaces and Air quality | From vehicle movements | Yard sweeper carries out regular cleaning on the yard to prevent the build-up of dust | Highly unlikely | Land and Air pollution | **Low** |
| **Noise** | Neighbouring properties and people | From vehicle movements | Lorries are switched off on arrival and not restarted until ready to move off site. Forklifts are well maintained to ensure low levels of noise is produced. | Unlikely | Noise pollution | **Low** |
| **Water Contamination** | Surface water drains | From vehicle movements | All loads are on pallets and secured in bags or shrink wrapped. Drains have baskets to capture any waste | Unlikely | Water pollution | **Low** |
| **Litter** | Surrounding ground surfaces, Wildlife, People | From vehicle movements | Yard sweeper carries out regular cleaning on the yard to prevent the build-up of dust | Unlikely | Land pollution | **Low** |
| ***Forklift Truck Movements:*** |
| **Dust** | Surrounding ground surfaces and Air quality | From vehicle movements | Yard sweeper carries out regular cleaning on the yard to prevent the build-up of dust | Highly unlikely | Land and Air pollution | **Low** |
| **Noise** | Neighbouring properties and people | From vehicle movements | Forklift trucks are well maintained to ensure low levels of noise is produced. | Highly unlikely | Noise pollution | **Low** |
| **Surface Water Drainage Contamination** | Surface water drains | From vehicle movements | Drains have baskets to capture any waste spilt from forklift trucks. | Highly unlikely | Water pollution | **Low** |
| **Litter** | Surrounding ground surfaces, Wildlife, People | From vehicle movements | Material is secured on pallets, in bags and/or shrink wrapped. The trailers are curtain sided or containers with doors to prevent spills. Perimeter fence has full litter capture nets fitted. | Unlikely | Land pollution | **Low** |

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| ***Yard Sweeping:*** |
| **Dust** | Surrounding ground surfaces and Air quality | From sweeper action | Yard sweeper carries out regular cleaning on the yard to prevent the build-up of dust | Highly unlikely | Land and Air pollution | **Low** |
| **Noise** | Neighbouring properties and people | From sweeper action | Sweeping is carried out during daytime hours of operation | Highly unlikely | Noise pollution | **Low** |
| **Litter** | Surrounding ground surfaces, Wildlife, People | From sweeper action | The sweeper captures all waste and floor sweeps to dispose of into the skip | Highly unlikely | Land pollution | **Low** |
| ***Guillotining plastic sheet from roll core:*** |
| **Litter** | Surrounding ground surfaces | From loose material | All plastics are collected for recycling and cardboard for baling | Highly unlikely | Land pollution | **Low** |
| ***Baling Cardboard And Loose Plastic Waste:*** |
| **Litter** | Surrounding ground surfaces | From loose material | All plastics and cardboard at the machine are collected for baling | Highly unlikely | Land pollution | **Low** |
| ***Granulating Plastics To Small Flake (10mm) Size Regrind:*** |
| **Dust** | Surrounding ground surfaces, Air quality and People | Dust generated by process | Enclosed machinery. Dust socks built into the machinery to collect fine dust particles. Plastic is blown to bulk bag containment | Unlikely | Land and Air pollution and Occupational health | **Low** |
| **Bioaerosols** | Surrounding ground surfaces, Air quality and People | Generated by the process | Dust socks built into the machinery to collect fine dust particles. Plastic is blown to bulk bag containment | Unlikely | Land and Air pollution and Occupational health | **Low** |
| **Noise** | People | Noise from machinery whilst in operation | Enclosed machinery operating indoors between Monday and Friday during daylight hours | Unlikely | Noise pollution | **Low** |
| **Vibration** | Property and People | Through the process when re-sizing material | Machinery is securely bolted to the ground with well-maintained rotor shafts and blade cutting systems | Unlikely | Vibration into property causing damage | **Low** |
| **Litter** | Surrounding surfaces | Spilt material from process | Frequent sweeping and housekeeping | Unlikely | Land pollution | **Low** |
| **Pests** | Rats, Mice and Pigeons | Pests seeking food sources | Pest control contract in place. Frequent sweeping and housekeeping | Unlikely | Occupational hazards | **Low** |

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| ***Blending Plastic Regrind In Fountain Blender:*** |
| **Dust** | Surrounding ground surfaces, Air quality and People | Dust generated by process | Enclosed machinery with discharge for plastic that is blown to bulk bag containment | Unlikely | Land and Air pollution and Occupational health | **Low** |
| **Bioaerosols** | Surrounding ground surfaces, Air quality and People | Generated by the process | Enclosed machinery with discharge for plastic that is blown to bulk bag containment | Unlikely | Land and Air pollution and Occupational health | **Low** |
| **Noise** | People | Noise from machinery whilst in operation | Low level noise output from machine | Unlikely | Noise pollution | **Low** |
| **Litter** | Surrounding surfaces | Spilt material from process | Frequent sweeping and housekeeping | Unlikely | Land pollution | **Low** |
| ***Filling Bulk Bags With Plastic Regrind:*** |
| **Dust** | Surrounding ground surfaces, Air quality and People | Dust generated by process | Enclosed machinery with discharge for plastic that is blown to bulk bag containment | Unlikely | Land and Air pollution and Occupational health | **Low** |
| ***Extrusion Process:*** |
| **Dust** | Surrounding ground surfaces, Air quality and People | Dust generated by process | Hopper systems to feed a closed machinery system to prevent loss of material during processing. Extraction system to improve air quality around the machine and pass any airbournes to atmosphere. Air testing has proven the air quality satisfactory | Unlikely | Land and Air pollution and Occupational health | Low |
| **Bioaerosols** | Surrounding ground surfaces, Air quality and People | Generated by the process | Hopper systems to feed a closed machinery system to prevent loss of material during processing. Extraction system to improve air quality around the machine and pass any airbournes to atmosphere. Air testing has proven the air quality satisfactory | Unlikely | Land and Air pollution and Occupational health | Low |
| **Heat** | Atmosphere and People | Through heat generated at the process in the screw and barrel | Chiller system to remove heat from the process where it is not required. Enclosed equipment and machinery to protect the people | Unlikely | Air and Atmospheric pollution | Low |
| **Noise** | People | Noise from machinery whilst in operation | Noise Survey completed to ascertain noise levels and pollution. Levels are satisfactory. However, employees are to wear hearing protection whilst up against the machine | Unlikely | Noise pollution | Low |
| **Vibration** | Property and People | Through the process when forming material | Machinery is securely bolted to the ground with well-maintained screw, barrel and pelletiser. | Unlikely | Vibration into property causing damage | Low |
| **Vapour / Steam** | Atmosphere and People | Generated by the process | Hopper systems to feed a closed machinery system to prevent loss of material during processing. Extraction system to improve air quality around the machine and pass any airbournes to atmosphere. Air testing has proven the air quality satisfactory | Unlikely | Air pollution and Occupational health | Low |
| **System Discharge** | Surrounding ground surfaces and Water discharge points | Discharge from machinery and when handled to be disposed of | Discharge is bunded and collected when full. Not stored near soils, waterways or site drainage. Only stored in bunding on hard standing concrete surfaces | Unlikely | Land and Water pollution | Low |
| **Odour** | People | From outlets of the machinery processes | Odour management system in place and high-quality feedstock to prevent odour arising from the processes | Unlikely | Air pollution and Occupational health | Low |
| **Litter** | Surrounding surfaces | Spilt material from process | Frequent sweeping and housekeeping | Unlikely | Land pollution | Low |

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| ***Planned Preventative Maintenance:*** |
| **Dust** | Surrounding ground surfaces, Air quality and People | Dust generated by process | Extraction systems used where required by contractors to improve air quality and pass any airbournes safely filtered to atmosphere. | Unlikely | Land and Air pollution and Occupational health | **Low** |
| **Bioaerosols** | Surrounding ground surfaces, Air quality and People | Generated by the process | Extraction systems used where required by contractors to improve air quality and pass any airbournes safely filtered to atmosphere. | Unlikely | Air pollution and Occupational health | **Low** |
| **Heat** | Atmosphere and People | From heat source of equipment in use | Hot works only completed in conjunction with permit following all safety checks | Unlikely | Air pollution | **Low** |
| **Noise** | People | Noise from machinery whilst in operation | Noise Survey completed to ascertain noise levels and pollution. Levels are satisfactory. However, employees are to wear hearing protection whilst up against the machine | Unlikely | Noise pollution | **Low** |
| **Chemicals** | Surrounding ground surfaces, Air quality and People | From replenishing / replacing during maintenance | Spill kits, containment and safe systems of work | Unlikely | Land and Air pollution and Occupational health | **Low** |
| **Gases** | Surrounding ground surfaces, Air quality and People | From replenishing / replacing during maintenance | Spill kits, containment and safe systems of work | Unlikely | Land and Air pollution and Occupational health | **Low** |
| **Odour** | People | From outlets of the maintenance activity and processes | Odour management system in place and high-quality feedstock to prevent odour arising from the processes | Unlikely | Air pollution and Occupational health | **Low** |
| **Litter** | Surrounding surfaces | Spilt material from process | Frequent sweeping and housekeeping | Unlikely | Land pollution | **Low** |

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| ***Sites and Operations of Concerns in the Nearby Vicinity: Neighbours and The Environment – The River Nene:*** |
| **Dust** | Surrounding ground surfaces, Air quality and People | Dust generated by process | Extraction system to improve air quality around the machine and pass any airbournes to atmosphere. Air testing has proven the air quality satisfactory | Unlikely | Land and Air pollution and Occupational health | Low |
| **Bioaerosols** | Surrounding ground surfaces, Air quality and People | Generated by the process | Extraction system to improve air quality around the machine and pass any airbournes to atmosphere. Air testing has proven the air quality satisfactory | Unlikely | Land and Air pollution and Occupational health | Low |
| **Heat** | Atmosphere and People | Through heat generated at the site processes. | Chiller system to remove heat from the process where it is not required. Enclosed equipment and machinery to protect the people | Unlikely | Air and Atmospheric pollution | Low |
| **Noise** | People | Noise from machinery. | Noise Survey completed to ascertain noise levels and pollution. Levels are satisfactory.  | Unlikely | Noise pollution | Low |
| **Vapour / Steam** | Atmosphere and People | Generated by the process | Hopper systems to feed a closed machinery system to prevent loss of material during processing. Extraction system to improve air quality around the machine and pass any airbournes to atmosphere. Air testing has proven the air quality satisfactory | Unlikely | Air pollution and Occupational health | Low |
| **System Discharge** | Surrounding ground surfaces and Water discharge points | Discharge from machinery and when handled to be disposed of | Discharge is bunded and collected when full. Not stored near soils, waterways or site drainage. Only stored in bunding on hard standing concrete surfaces.The River Nene is approximately 500m away from site and should not be impacted by site operations. | Unlikely | Land and Water pollution | Low |
| **Odour** | People | From outlets of the machinery processes | Odour management system in place and high-quality feedstock to prevent odour arising from the processes. | Unlikely | Air pollution and Occupational health | Low |
| **Litter** | Surrounding surfaces | Spilt material from process | Frequent sweeping and housekeeping.Netting on the perimeter fencing reduces the amount of litter escaping site. | Unlikely | Land pollution | Low |

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| **ERA Completed By:** | Name: | Brandon RimmerRoly Rimmer | Job Title: | HS Advisor | Signature: | *B. Rimmer**R. Rimmer* | Date: | 27/08/2024 |
| **ERA Accepted By:** | Name: | Martin Harper | Job Title: | General Manager | Signature: | *M. Harper* | Date: | 27/08/2024 |