ENVIRONMENTAL RISK ASSESSMENT

The scope of the permit and associated rules is defined by the following risk criteria:

Parameter 1 Permitted activities - The storage of waste prior to recovery (R13),
Parameter 2 Permitted waste types - Hazardous waste oils,
Parameter 3 Quantity of waste accepted at the facility: max 3000 tonnes per annum,
Parameter 4 Quantity of waste stored at any one time: 26 tonnes,
Parameter 5 All waste shall be stored on an impermeable (concrete) surface within a bunded area in closed premises.
Parameter 6 The only source of wastewater is domestic wastewater from the sanitary unit (toilet and sink). The unit is closed and it is detached and separated from the rest of the premises.
Parameter 7 The activities shall not be carried out within 200 metres of a European Site (candidate or Special Area of Conservation, proposed or Special Protection Area or Ramsar site) or a Site of Special Scientific Interest (SSSI).
Parameter 8 The floor is covered with concrete and will be rendered with oil-resistant paint and there is no possibility the soil and groundwater to be contaminated.

Data and information				Judgement				Measures and actions	
Hazard	**Source**	**Receptor**	**Pathway**	**Probability of exposure**	**Consequence**	**Magnitude of risk**	**Justification for magnitude**	**Risk management**	**Residual risk**
What is the type of hazard (i.e. dust, bioaerosols, litter, type of visible emission)	*What is the agent or process with potential to cause harm?*	*Who/What is at risk?*	*How might the receptor come into contact with the source?*	*Whether a risk is unlikely or highly likely*	*What harm could be caused*	*What is the overall magnitude of the risk?*	*What is the base of the judgement?*	*What measures should be taken to reduce the risk?*	*What is the magnitude of the risk after management?*
Dust, mud	Vehicle traffic	Residents living close to the road leading to the industrial zone	Vehicles entering and leaving	Unlikely	Nuisance, loss of amenity	Low	The industrial zone is covered with asphalt and the activities are unlikely to cause any dust or mud.	The vehicles will be inspected regularly	Low
Traffic accidents	Vehicle traffic	Residents living close to the road leading to the industrial zone	Vehicles entering and leaving	Unlikely	Injuries	Low	The vehicles will move at a very low speed	Conducting periodical instructions to the drivers and signs installing	Low
Odour	Loading/Unloading of waste oil	Local human population.	Through air	Unlikely	Nuisance, loss of amenity.	Low	The waste oil will be stored in closed premises and closed tank. The nearest residential district is located around 70 m from the premises.	Compliance with all hygiene requirements for this type of activity. Maintenance of technological equipment in very good technical condition. Periodic inspection of all seals, connections, pipes, and tanks.	Low
Noise and vibration	Waste oil loading/unloading equipment (pumps)	Local human population.	Noise through the air and vibrations through the ground	Unlikely	Nuisance, loss of amenity	Low	The operation will be done in a closed premises. The nearest residential district is located around 70 m from the unit.	The pumps will be supplied with vibration damper. The entrance will be closed during loading/unloading.	Low

Data and information				Judgement				Measures and actions	
Hazard	**Source**	**Receptor**	**Pathway**	**Probability of exposure**	**Consequence**	**Magnitude of risk**	**Justification for magnitude**	**Risk management**	**Residual risk**
What is the type of hazard (i.e. dust, bioaerosols, litter, type of visible emission)	*What is the agent or process with potential to cause harm?*	*Who/What is at risk?*	*How might the receptor come into contact with the source?*	*Whether a risk is unlikely or highly likely*	*What harm could be caused*	*What is the overall magnitude of the risk?*	*What is the base of the judgement?*	*What measures should be taken to reduce the risk?*	*What is the magnitude of the risk after management?*
Flood	Heavy rain and/or Sankey (St. Helens) canal	Local human population and local environment.	Flood waters.	Unlikely	If the industrial zone is flooded it may contaminate buildings /gardens / natural habitats.	Low	The tank for storage of waste oil will be installed within a bund. The operation will be done in closed premises. Rainwater does not have contact with the equipment.	The entrance door will be kept closed. Regular inspection of the roof.	Low
Spillage of liquids	Compromised equipment	Local human population and local environment.	Soil, surface water and groundwater	Unlikely	Negative impact to the environment.	Low	The tank for storage of waste oil will be installed within a bund. The operation will be done in closed premises.	The internal surfaces of the floor and the walls will be coated with oil-resistant material which ensures impermeability and retention of the oils. For additional protection, oil-resistant paint will be rendered on the same surfaces in the bund and on the whole floor in the premises as well. The bund and the floor outside the bund have no connection with the sewerage system. The spillage from the bunded area will be treated with sorbent and will be given to external licensed companies.	Low
Fire	Accidental fire or arson	Local human population, staff on the site and the environment.	Through air, land, and direct physical contact.	Unlikely	Respiratory irritation, illness and nuisance to local population. Injury to staff, firefighters. Pollution of air, water or land	Medium	Oils have high flashpoint greater than 100 °C and stored in closed container	Firefighting equipment will be provided inside the unit. Restricted access. Video monitoring will be installed.	Low
VOCs	Loading/Unloading of waste oil	Local human population.	Through air	Unlikely	Nuisance, loss of amenity.	Low	The waste oil will be stored in closed premises and a closed tank. The nearest residential district is located around 70 m from the premises.	Compliance with all hygiene requirements for this type of activity. Regular maintenance and keeping the technological equipment in very good condition. Periodic inspection of all seals, connections, pipes, and tanks. The doors will be closed during waste oil storage and they will be open only in case of loading/unloading operations. There will be no heating processes and waste oils will be stored at ambient temperature. Avoid using VOC-containing waste in accordance with the Pre-acceptance, Acceptance and Rejection procedures in the EMS. The tank is equipped with automatic relief valve.	Low