

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: 48 tonnes,
Parameter 5	All waste shall be stored on an impermeable (concrete) surface within a bunded area
Parameter 6	The only point source discharges to controlled waters are surface water from areas of the facility used for loading & unloading vehicles,
Parameter 7	No groundwater source protection and not within 50 metres of any well spring or borehole used for the supply of water for human consumption,
Parameter 8	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 9	The whole site area is covered with concrete 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
<i>What is the type of hazard (i.e. dust, bioaerosols, litter, type of visible emission)</i>	<i>What is the agent or process with potential to cause harm?</i>	<i>Who/What is at risk?</i>	<i>How might the receptor come into contact with the source?</i>	<i>Whether a risk is unlikely or highly likely</i>	<i>What harm could be caused</i>	<i>What is the overall magnitude of the risk?</i>	<i>What is the base of the judgement?</i>	<i>What measures should be taken to reduce the risk?</i>	<i>What is the magnitude of the risk after management?</i>
Dust, mud	Vehicle traffic	Residents living close to the site leading road	Vehicles entering and leaving site	Unlikely	Nuisance, loss of amenity	Low	The site is covered with concrete and the activities are unlikely to cause a lot of dust or mud.	The vehicles and the site will be maintained regularly	Low
Traffic accidents	Vehicle traffic	Residents living close to the site leading road	Vehicles entering and leaving site	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 on the site	Local human population.	Through air	Unlikely	Nuisance, loss of amenity.	Low	The waste oil will be stored in closed tanks. The nearest residential district (Cwrt Cwellyn, CH5 3PW) is located around 250 m from the site.	Regular cleaning of the site. 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 nearest residential district (Cwrt Cwellyn, CH5 3PW) is located around 250 m from the site.	The pumps will be supplied with vibration damper.	Low

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Flood	Heavy rain and/or Broughton Brook River	Local human population and local environment.	Flood waters.	Unlikely	If waste is washed off site it may contaminate buildings /gardens / natural habitats downstream.	Low	The tanks for storage of waste oil will be installed within a bunded area. Rainwater from the loading/unloading area will discharge to an oil-water separator	Regular maintenance and check of the equipment integrity.	Low
Spillage of liquids, contaminated rainwater run-off.	Compromised equipment	All surface waters close to and downstream of site.	Direct run-off from site across ground surface, via surface water drains, ditches etc,	Unlikely	Adverse impact on the river biodiversity.	Low	The tanks for storage of waste oil will be installed within a bunded area. Rainwater from the loading/unloading area will discharge to an oil-water separator	All areas of the site used for storage of oil in tanks of oil shall be provided with an impermeable surface and bunding. No point source emissions to water. The spillage from the bunded area will be treated with adsorbent 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 containers	Firefighting equipment will be provided at the site Restricted access to the site. Video monitoring will be installed.	Low