

Source	Receptor	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk	Justification for Magnitude	Risk Management	Residual Risk
The agent or process with potential to cause harm	What is at risk? What do I wish to protect?	The harmful consequences if things go wrong	How the receptor might come into contact with the source	Severity of the consequences if this occurs	Severity of the consequences if this occurs	The overall magnitude of risk	Basis of my judgement	How can I best manage the risk to reduce the magnitude	Magnitude of the risk after management
Hydrocarbon groundwater contaminant	Groundwater and ditch water	Damage to soil, surface water and groundwater quality	Spillage from pipelines and spills in the treatment pad	Low	Medium	Medium	Effect on soil, surface water and groundwater quality	1) Impermeable pavement with sealed drainage for treatment plant 2) Ensure all pipework is sealed and in good order 3) Ensure all oil storage containers accord with HSG176 / PPG2 4) Ensure plant and equipment are commissioned, tested and operated in accordance with VertaseFLI procedures	Low
Hydrocarbon groundwater contaminant	Groundwater and ditch water	Damage to surface water and groundwater quality	Discharge of water to ground	Medium	Medium	Medium	Effect on surface water and groundwater quality	1) Discharge treated water in accordance with obtained discharge consent 2) Ensure plant and equipment are commissioned, tested and operated in accordance with VertaseFLI procedures 3) Regular testing of water before, between and after carbon filters to enable expedient filter change when required	
Breakdown Product	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Emission (VOCs / Odours)	Adjacent population	Nuisance	Vapours / odours in air	Low	Medium	Medium	Limited local population sensitive to odour / vapour	1) Sealing of plant, pipework and containers as far as reasonably practicable 2) Regular testing of vapour before, between and after carbon filters to enable expedient filter change when required	Low
Emission (Noise)	Adjacent population	Nuisance	Noise transmitted aerially	Low	Low	Low	Limited local population sensitive to noise	1) Select 'low noise' plant and equipment 2) Ensure plant and equipment are commissioned, tested and operated in accordance with VertaseFLI procedures	Low
Waste residue (LNAPL)	Groundwater and ditch water	Damage to soil, surface water and groundwater quality	Spillage in the treatment pad	Low	Medium	Medium	Effect on soil, surface water and groundwater quality	1) Impermeable pavement with sealed drainage for treatment plant 2) Ensure all oil storage containers accord with HSG176 / PPG2	Groundwater and ditch water

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