

Appendix 4: Environmental Risk Assessment - General

The document below is a risk assessment of the MAIN environmental risks identified in the preliminary environmental risk assessment undertaken for the upcoming site of G R Wright and Sons in Harlow.

The site is not fully operational and the risk assessment document will be updated in the coming months as the working conditions and the likelihood and severity of all risks identified (and any more) will become more apparent.

The risk assessment scores the likelihood (Scale of 1-5 with 1 being least likely and 5 being extremely likely) as well as severity (on a scale of 1-5 with 1 being least severe and 5 being extremely severe).

The current risk level is calculated as likelihood X severity with a maximum risk score of 25.

The risks rating and level helps us identify if current measures are sufficient and suitable and any mitigative actions required.

Risk rating	Risk level
1-5	Very low (no action required)
6-9	Low to Medium (action required)
10-16	High (immediate action required)
>16	Severe (urgent action required)

The risks are identified as follows:

Risk Assessment

Hazards (and source of hazards)	Receptors (who is at risk)	Pathways to the risk	Current controls	A Likelihood	B Severity	C Current Risk Level (A x B)	D Control/Mitigation (what will you do to mitigate this risk)	Follow up (date and person responsible)
Dust emissions from milling process leaking to the environment	Local waterways	Leaked bag filter	De-dusting provisions as well as filters in line with BAT. Regular, ongoing monitoring undertaken	1	3	3	Low risk but regular monitoring will be done to ensure risk is fully managed.	Environmental Management Representative (EMR)
	Deposit on land	Leaked bag filter		1	3	3		
	Inhalation by those on site	Dusting on site; leaked bag filter	De-dusting facilities ensure air is safe and breathable. Suitable PPEs provided to relevant staff.	1	2	2	A Dust Management Plan has been drafted to identify, control, manage and mitigate any dust emissions.	Millers Ongoing (visual checks) and mill log records
Dust emissions leading to explosion	Individuals present on site	Flour dusting during various processes	Removal of fine particles of dust with dust suppression systems and techniques	1	4	4	Very low likelihood of this as there are sufficient systems in place to control and suppress dusting as well as controlling fugitive emissions and monitoring and management of bag filters to stop leaks. However, regular visual checks are planned	Environmental Management Representative (EMR) + Millers + maintenance department Visual checks
Water discharge	Waterways	From washing	No harmful or toxic chemicals to be discharged. Regular	1	2	2	Water discharges currently from washing process or from use in offices	Environmental Management Representative (EMR)

			checks and awareness of staff undertaken. Vehicle washing is done in its own dedicated area and will drain into a <i>Klargester</i> washdown & silt separator, which has the discharge consent placed on it. Surface water goes to a rainwater collection system, and that has its own interceptor as well.				(kitchens, toilets) is low risk of environmental pollution. However, regular checks will be made and recorded.	
Waste	Pollution through improper management	Waste generated on site	Licensed waste management companies to collect and manage all waste streams from the company. When on site, waste to be in secure containers to stop from any littering. Waste transfer notes to be kept on record.	1	3	3	No toxic or hazardous waste expected on site from routine activities. Environmental Management Representative will keep an eye on waste streams and continue working on strategies to minimise waste through waste management strategies	Environmental Management Representative (EMR)
Noise	Local neighbourhood	From milling activities	Noise assessment carried out shows very low risk	1	2	2	Continue monitoring noise levels on a regular basis, especially if any new machines or processes are introduced that	Environmental Management Representative (EMR)

							could contribute to higher noise levels.	
Odour	Local neighbourhood	From site	Very low risk of foul odour or other olfactory nuisance arising from the existing activities.	1	2	2	Continue monitoring odour levels on a regular basis, especially if new ingredients are introduced that could have a negative (foul) odour and cause wider nuisance	Environmental Management Representative (EMR)
Fire	Those present on site, neighbouring areas	From various combustible sources	Company has taken steps to ensure fire risks are minimised through fire safety and prevention plan and strategies including fire officers, designated smoking areas, identifying and separating combustible materials where possible, suitable fire fighting equipment, fire drills, fire wardens, etc.	1	2	2	Ongoing monitoring as precautionary measures to be undertaken, especially when risks/ chances of fire are higher e.g. more presence of combustible material(s), higher temperatures, dry weather, etc.	Fire warden, Environmental Management Representative (EMR) Ongoing (visual checks) 3 monthly (planned checks)
Fuel (spills)	Waterways, land pollution	Spillages during tank filling, storage, torn/ broken pipes, improper filler cap	Site drains to interceptors, availability of spill kits are there to ensure any such accidental leaks do not cause adverse environmental impacts.	1	4	4	Checks of vehicles and filling tanks and equipment to be undertaken regularly to ensure there were no failures	Maintenance + Environmental Management Representative (EMR)

		replacement, etc.	Interceptors will be checked annually					
Oils (spills)	Waterways	Spillages while pouring waste oil during tank or during collection or travel offsite	Site drains to interceptors, availability of spill kits and external bunds are there to ensure any such accidental leaks do not cause adverse environmental impacts. Interceptors will be checked annually	1	3	3	Responsible trained operator to remain present during waste oil transfers.	Environmental Management Representative (EMR)
Energy	Ozone, humans (through GHG emissions)	Through heating, cooling, lighting, use of machinery and compressors, etc.	Energy assessment of the site done and some best practices have been installed, where economically feasible to ensure optimal use of energy and minimise adverse environmental impact.	2	3	6	Continue monitoring energy use, conduct regular awareness sessions (or toolbox talks) and for any future investments, consider the most energy efficient alternative where practicable	Environmental Management Representative (EMR). Energy manager/site supervisor.
Health and Safety	Those present on site	Through trips, slips and falls, manual handling, fall at heights, etc.	Robust health and safety procedures and systems in place to minimise risks and keep the site safe and healthy. This includes marked walking areas, specified parking bays, use of PPEs, designated H&S officials, food safety and hygiene, avoiding contaminants	2	2	4	This is a low risk site overall, but regular monitoring will be undertaken to continue meeting highest standards of safety and well-being of all present on site	Environmental Management Representative (EMR) + Health and Safety officer

Adverse impacts on habitat, species and on designated sites	On species and habitats in the areas near the site	Through activities on the site	<p>The overall ecological value of the site was considered to be low in view that the site is located within a principally urban setting with few semi-naturalised habitats.</p> <p>A number of designated nature conservation sites (NCS) (2 Local Natural Reserves and 1 SSSI) are within a 2 km radius of the site. However, in view of the proximity of these NCS from the plant, and the low level of habitat connectivity, no adverse impacts upon the interest features of these sites are expected from the operations.</p>	3	1	3	Regular ongoing inspections	Environmental Management Representative (EMR). Energy manager/site supervisor.
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Overall Risk rating of Site:	3.1 (Low)
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G. R. Wright & Sons Limited

November 2020 (v2)