12. Raw materials and packaging;
13. Office activities;
14. Landscaping and infrastructure;
15. Other relevant issues such as odors, particulates, lighting and pests.

When identifying inputs and outputs, the EMS Manager considers all modes of operation since start-up, shutdown, or emergency operations might introduce additional environmental aspects into our processes.

To assist in determining environmental aspects, activity charts, flow charts, interviews, and lists are used with the personnel conducting the activity. A listing of environmental aspects and their associated environmental impacts is provided below:

Environmental Aspect	Environmental Impact
Water consumption	Use of natural resources
Material consumption	Use of natural resources
Energy consumption	Use of natural resources
	Degradation of air quality
Waste generation	Reduction of landfill space
Air emissions	Degradation of air quality
	Degradation of ozone or contribution to climate change
	Degradation of worker/community health
Accidental discharges (spills/leaks)	Degradation of soil, water, and/or sediment quality
Stormwater/surface water discharges	Degradation of water quality
Wastewater generation and disposal	Degradation of water and air quality
	Degradation of public health
Habitat quality/quantity	Habitat and species sensitivity
Land utilization	Aesthetics and community environment
Generation of noise	Degradation of Worker/community Health
Recycling	Preservation of Landfill Space
Exposures/injuries	Degradation of worker/community health
Groundwater discharges	Degradation of water quality
Lead or asbestos	Degradation of worker/community health
	Reduction of landfill space
Generation of Dust	Degradation of air quality
	Degradation of worker/community Health
Gas consumption	Emission of CO2; contribution to climate change; depletion of finite fossil fuel resource
Diesel consumption	Degradation of local air quality; emission of NOx, SOx and particulates; contribution to climate change
Electricity consumption	Indirect greenhouse gas emissions from electricity generation; depletion of energy resources
Transport (road haulage)	Degradation of air quality; CO2 and NOx emissions; contribution to climate change
Accidental spills or leaks	Contamination of soil, surface water and groundwater; regulatory prosecution; clean-up liability
Disposal in/on land	Reduction of landfill space; methane generation; leachate risk; depletion of land resource
Statutory nuisance	Nuisance to neighbouring properties from odour, light or dust; risk of regulatory enforcement or litigation
Product lifecycle	Downstream environmental impacts during product use and end-of-life disposal; depletion of resources

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changes its risk appetite. All Significant aspects are subject to mitigation as per the Impact Exposure Score table below.

1.4.4.1 Impact

Score	Rating	Definition
1	Very low	Harmless/mild impact with little or no potential for harm
2	Low	Moderate, slightly harmful
3	Moderate	Serious or harmful, but not potentially fatal to plants/living beings
4	Severe	Severe or catastrophic, very harmful and/or potentially fatal

1.4.4.2 Legislation

Score	Rating	Definition
1	Low	No relevant legislation
2	Compliant	Complies with legislation
3	Potential Breach	Potential Breach/lack of awareness
4	Serious	Breach of legislation

1.4.4.3 Quantity

Score	Rating	Definition
1	Low	Occurs in very low quantities, no permits or limits
2	Minor	Occurs in low or small quantities, no breach of permitted emission limits
3	Moderate	Occurs in medium quantities, serious toxic effect on beneficial or protected species
4	Significant	Hazardous substances releases in high or large quantities, breach of emission limits

1.4.4.4 Frequency

Score	Rating	Definition
1	Never	Occurs once every 10 years
2	Sometimes	Occurs at least once a year
3	Often	Occurs at least once a week/month
4	Always	Occurs at least once a day

1.4.4.5 Impact Exposure Score

Score	Ranking	Management Control Action (MCA)	Timeframe
1 to 14	Positive significance	Activities in this category present negligible levels of environmental impact or risk. Additional control measures may be required if changes occur. Continue to monitor for compliance.	1 year +
15 to 22	Low negative significance	Consider ways of modifying the process and implementing controls to reduce the environmental impacts or risks to as low as reasonably practicable (ALARP). Additional control measures and monitoring may be required.	Within 6 months
23 to 39	Medium negative significance	Activities in this category present high levels of environmental impact or risk and should not proceed without operational controls. Consider consulting specialists. Fine, complaints and litigation possible. Evaluate whether alternative processes or substitutions are available.	Within 3 months
> 40	High negative significance	Activities in this category present extreme levels of environmental impact or risk, site shut down, fines, litigation certain, such as loss of natural or human life, or breach of legislation and must not be undertaken.	Immediate

1.4.5 Mitigating Significant Impacts

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