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Guidance Sheet EMP02/G/01 – Environmental Feature Matrix (Identifying Environmental Aspects and Impacts)	
Environmental Aspect	Direct and Indirect Environmental Impacts
Energy Inputs (Embodied)	
Electrical – Battery use	<ul style="list-style-type: none"> • Non-renewable resource use (battery production) • Non-renewable resource use (battery charging)
Mains electricity use	<ul style="list-style-type: none"> • Non-renewable resource use (during energy production)
Gas use	<ul style="list-style-type: none"> • Non-renewable resource use
Oil use	<ul style="list-style-type: none"> • Non-renewable resource use
Compressed air use	<ul style="list-style-type: none"> • Non-renewable resource use (during energy production)
Renewable energy use – fuel cell	<ul style="list-style-type: none"> • Renewable resource use
Material Inputs (Embodied)	
Use of animal or plant derived materials	<ul style="list-style-type: none"> • Natural resource use or non-renewable/scarce natural resource use
Use of minerals and mineral derivatives (ie concrete, metals, paint, plastics)	<ul style="list-style-type: none"> • Non-renewable natural resource use • Energy use (therefore natural resource use or non-renewable natural resource) during extraction and manufacture of material
Use of wood products	<ul style="list-style-type: none"> • Natural resource use or non-renewable/scarce natural resource use
Use of refrigerants	<ul style="list-style-type: none"> • Non-renewable natural resource use
Use of water	<ul style="list-style-type: none"> • Natural resource use (water) • Natural resource use or non-renewable natural resource during water treatment
Energy Outputs (Emitted)	
Acoustic	<ul style="list-style-type: none"> • Adverse health impact to humans, animals • Potential statutory nuisance liability
Electromagnetic	<ul style="list-style-type: none"> • Adverse health impact to humans, animals
Thermal – Radiation/Convection /Conduction	<ul style="list-style-type: none"> • Adverse health impact to humans, animals
Kinetic	<ul style="list-style-type: none"> • Adverse health impact to humans, animals
Chemical	<ul style="list-style-type: none"> • Adverse health impact to humans, animals

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Environmental Aspect	Direct and Indirect Environmental Impacts
Material Outputs (Emitted)	
Emissions to land	<ul style="list-style-type: none"> • Potential land and groundwater contamination – (Threat to human health, biodiversity and ecosystems)
Emissions to water	<ul style="list-style-type: none"> • Potential surface water pollution is not appropriately treated (Threat to human health, biodiversity and ecosystems) • Resource and energy use during water treatment
Emissions to air	<ul style="list-style-type: none"> • Air pollution (climate change, acid rain, ozone depletion, local air quality)
Waste production (including special waste)	<ul style="list-style-type: none"> • Incinerated - Air pollution from incinerator and transport and landfill impacts from incinerator waste disposal • Recycled at location - Possible energy and resource use during recycling • Recycled at different location - Air pollution from transport and any energy and resource use during recycling • Landfill - climate change, local air quality, land use and potential land and groundwater contamination

[The table above contains examples only, and is not intended to be fully comprehensive]

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