



APPENDIX 12.1 RISK TABLE

This Risk Table forms the scoping part of the assessment. The table has been used to determine the scope. This stage determines in more detail whether there is potential for significant effects as a result of major accidents and/or disasters associated with the Proposed Development. Scoping, in this instance, is used in the context of scoping major events, rather than EIA scoping.

The table has used the risks outlined in the National Risk Register (2020 Edition) as a basis. Additional risk groups have been added following consideration of the specific development use of battery manufacturing. The additional risks have been included based on professional judgement and relevance to the Proposed Development.

Key

✗	Indicates that the major accident or disaster is not considered a potential risk for the location of the Proposed Development, or during the construction phase, or during the operational phase.
✓	Indicates that the major accident or disaster is considered a potential risk for the location of the Proposed Development, or during the construction phase, or during the operational phase.



Category	Risk Group	Risk Sub Group	Is the risk covered in the relevant ES chapter?	Is the Risk relevant to the Proposed Development's Location	Construction Risk	Operational Risk	Scoped In?
Natural Hazards	Flooding	Coastal	Yes (Chapter 9: Water Environment)	✓	✓	✓	Yes In accordance with HBC's Scoping Opinion the topic of flooding has been included within the assessment.
		Fluvial Flooding		✓	✓	✓	
		Groundwater					



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		Surface Water		✓	✓	✓	
		Sewer Flooding		✓	✓	✓	
	Severe Weather	Storms and Gales	No	✗	✓	✓	Yes Extreme weather events like heat waves, droughts, and heavy precipitation have the potential to impact buildings and infrastructure, human health, the environment and climatic systems.
		Low (Sub Zero) Temperatures and heavy snow					



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		Heat Waves					
		Drought					
	Space Weather	Solar Flares	Yes	✓	✗	✗	Yes Severe space weather may lead to power blackouts and damage and grid infrastructure.
		Solar Energetic Particles		✗	✗	✗	No Solar energetic particles cannot reach low-altitude and low-latitude Earth orbit, due to the Earth's magnetic field which is strong enough to form a protective barrier
		Coronal Mass Ejections (CME)		✓	✗	✗	Yes Severe space weather may lead to power blackouts and damage and grid infrastructure.



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		Solar Radio Bursts		x	x	x	No Solar radio bursts (SRB's) take up to 8 minutes to reach earth and pose a threat to Global Navigation Satellite Systems (GNSS) service performance in the hemisphere facing the sun. Owing to the nature of threat this event is not considered within the scope of the chapter.
		High-speed solar wind streams		x	x	x	No High-Speed Solar Wind Streams (HSS) are streams of Plasma that flow out of regions of the sun. When a HSS passes over Earth it exposes satellites to increased levels of radiation which could increase the risk of damage. While HSS is noted as having the potential to cause damage to satellites, there have been no recorded instances of damage to people or property and there has been misreporting of some events as they are difficult to record ^[3] . Owing to the nature of treat this event is not considered within the scope of the chapter.

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	Volcanic Eruptions		No	x	x	x	No Volcanic Activity is non-existent in the UK due to its location. However volcanic eruptions elsewhere on the globe could affect the UK immediately by disrupting air traffic. Over the longer term, volcanic air pollution could affect food supplies, health and potentially climate. It should be noted that for the longer-term effects to become apparent a major volcanic eruption must occur. The likelihood of this is considered to be very low. In addition, seismic activity is monitored globally. Should activity increase the UK will be alerted allowing time to respond accordingly. The risk of volcanic activity is considered to be low and has therefore been scoped out.
	Poor Air Quality		Yes (Chapter 06: Air Quality)	x	✓	✓	Yes During the construction phase of the Proposed Development there is potential for significant effects from dust and particulate matter generation. Operation of the Proposed Development will generate additional traffic and will cause a



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							redistribution of existing traffic on the local road network. The emissions associated with these has the potential to impact local air quality.
	Earthquakes		No	x	x	x	No Britain is a country of low to moderate seismicity. Although distant from the nearest plate boundary earthquakes in the UK occur as crustal stresses within the tectonic plates are relieved by movement occurring on pre-existing fault planes. The British Geological Survey (BGS) notes that between 200 and 300 earthquakes are detected and located in the UK each year. Most of these are very small and cause no damage. However, some British earthquakes have caused considerable damage, although these are not comparable to the devastation caused by large earthquakes in other parts of the world.



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							The largest known British earthquake occurred near the Dogger Bank in 1931, with a magnitude of 6.1. Whilst the earthquake occurred 60 miles offshore it was still powerful enough to cause minor damage to buildings on the east coast of England. It is acknowledged the casualty rate from earthquakes in the UK is very low. Research undertaken by the BGS, found that only 11 fatalities, as a result of earthquakes, can be traced with any certainty when using reliable records (1580 -1940). Of these, six were killed by falling stones, two fell from upper floors, two died of shock and one committed suicide^[4]. The research also shows a lack of correlation between earthquake magnitude and earthquake casualties in the UK; this is in accord with general observations in earthquake epidemiology. The National seismic hazard maps for the UK: 2020 update^[5] produced by the BGS notes that southern UK is characterised by low seismicity. Recent UK seismic activity is listed on the British Geological website^[6] and



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							notes that the closest seismic activity to the site was c. 170 km away in the English Channel measuring 2 on the Richter scale. Owing to the findings of the above and that the last earthquake related death, in the UK was in 1940 this disaster does not need to be considered further.
	Landslides		No	x	x	x	No BGS have recorded no historical landslides at the Site^[7]. BGS records that the area may be subject to small scale shallow rotational or translational landslides and debris flows, although none have been observed to date.
	Wildfires		No	x	x	x	No Wildfires and heavy precipitation can change ultraviolet (UV) light penetration and alter important ecosystem processes connected with the carbon cycle. Wildfires can also cause serious localised air pollution, leading to implications for human health.



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							The Proposed Development will increase the area of hardstanding on Site. This disaster is therefore scoped out.
Diseases	Human Disease		No	✓	✓	✓	No Whilst the Proposed Development will not give rise to any disease epidemics or pandemics, it is important to acknowledge the ongoing COVID-19 pandemic and its effects on the population. The pandemic has led to an emphasis on ensuring extensive precautions are followed including increased workplace safety, in the form of social distancing. Despite the extensive hygiene protocol and workplace measures the pandemic has affected thousands nationwide through sickness and loss of life^[8]. The number of events of emerging infections has been increasing over the last 100 years. The increase in globalisation and connectivity has meant that a virus can spread from one side of the world to



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							another in mere hours leading to global mortality. For reasons above the topic of human disease will be scoped in.
	Animal Disease		No	x	x	x	No The Proposed Development will not give rise to any diseases that will have an impact upon fauna.
Major Accidents	Widespread Electricity Failure and System Failures		No	✓	✓	✓	Yes Although a national blackout has never occurred if it were to occur it would disrupt construction activities and the residents including any of those who potentially work from home.
		Utilities Failure	No	✓	✓	x	The construction and operation of the Proposed Development has the potential to cause utilities (gas, localised electricity failure, fuel, water and sewerage) failures. Likewise, utilities failures could potentially lead to significant adverse effects on human health and damage built structures.
		Financial Failure	No	x	x	x	No Financial Failure (i.e. banking systems loss) is not relevant to the Proposed Development.



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		Telecommunications Failure	No	✓	✓	✗	Yes The routing of construction traffic has the potential to cause telecommunication failures. A telecommunications failure could also potentially lead to significant adverse effects to residents once the Proposed Development is complete, especially if some residents are required to work from home.
	Major Transport Accidents		Yes (Chapter 08: Transport)	✗	✓	✓	Yes The Proposed Development is expected to produce a change in the composition of the traffic on the local road network, as a result of increased HGV movements during the construction phase. Owing to the nature of the development (residential) there is expected to be an increase in traffic on the island. These may elevate the risks of accidents, such as junction conflicts.
	Industrial and Urban Accidents	Fires and Explosions (including Major Fires)	No	✗	✓	✓	Yes Major fires or explosions at the Proposed Development could lead to significant effects upon human health and property.



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		Chemical and Biological Contamination	No	x	x	x	No HBC have confirmed that contamination issues are scoped out of the ES and can be adequately managed within a Phase 2 assessment. A Phase 2 assessment will be undertaken at the detailed design stage.
		Radiological contamination	No	x	x	x	No There are no sources of radiological contamination within the vicinity of the Proposed Development.
		Dam Breach	No	x	x	x	No There are no dams within the vicinity of the Proposed Development.
		Employee Safety	No	x	x	x	No Construction processes that will be used are already established and suitable health and safety measures will be implemented and adhered to.
Society Risks	Industrial Action		No	x	x	x	No The effects of industrial action relate to the disruption of essential services and business,

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							public disorder challenges and economic damage. These impacts are considered to be outside the scope of an EIA.
	Widespread Public Disorder		No	x	x	x	No Given the nature of the Proposed Development it is considered unlikely that it will provoke public disorder.
	Serious and Organised Crime		No	x	x	x	No Given the nature of the Proposed Development it is considered unlikely that it will lead to crimes that cause the highest harm to the people of the UK, such as drug trafficking, fraud and child sexual abuse.
	Firearms		No	x	x	x	No It is considered unlikely that the Proposed Development will provoke gun crime.



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	Drugs		No	x	x	x	No It is considered unlikely that the Proposed Development will provoke crime and serious violence as a result of drugs.
	Bribes and Corruption		No	x	x	x	No It is considered unlikely that the Proposed Development will lead to bribery or corruption due to its nature.
	Child Sexual Abuse		No	x	x	x	No Given the nature of the Proposed Development it is considered unlikely that it will provoke the sexual abuse of children.



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Malicious Attacks	Terrorism		No	x	x	x	No Due to the nature of the Proposed Development (residential) the risks to or from terrorism related acts are considered to be very low. As such this section will be scoped out.