

**APPENDIX 2****Adaptation Risk Register – Threats to the services delivered by Blaby District Council from severe weather and future Climate Change**

<b>Impact of Climate Change</b>	<b>Threat</b>	<b>Consequence</b>	<b>Service affected</b>	<b>Risk rating</b>
Increasing summer temperatures	Flash flooding pluvial (rain) due to flash storm events	Damage to property and infrastructure	All services	Medium
		Major clean up and recovery costs	All services	Medium
		Health risks associated with stagnant bodies of water once river recedes	Environmental Protection, Neighbourhood Services, Health and Leisure	Medium
		Release of contaminants from contaminated sites	Environmental Protection	Medium
		Increased need to maintain and clear land drainage systems	Environmental Protection	Medium
		Need for increased drainage capacity	Environmental Protection, Development and Assets	Medium
		Disruption to services through transport disruption. Increased time to respond to any	All services	Medium

Impact of Climate Change	Threat	Consequence	Service affected	Risk rating
		emergencies		
		Increase in the numbers of displaced people seeking alternative accommodation	All services particularly Housing and Community	Medium
	Food poisoning and infectious disease	Infectious disease leading to death of an employee/resident	Health and Leisure	Low
		Impact on human health	All services	Low
		Impact on small businesses	Policy and partnerships Health and Leisure	Low
		Increase in staff time required to investigate incidents	Health and Leisure	Medium
	Health and safety risk for people working outside	Increased health risks from sunburn and heat stress	All services	Medium
	Increase in pest infestations and spread of viruses	Increase in vectors of disease – implications for public health and increase in service demand. Virus pandemic affecting workforce and district population	All services	Low
	Overheating in private sector homes	Possible health impacts including excess deaths	Environmental Protection, Housing and	Low

Impact of Climate Change	Threat	Consequence	Service affected	Risk rating
		particularly with the young and old	Community Services	
	Increase in outdoor activity	Increase in demand for noise and antisocial behaviour type services	All services particularly Environmental Protection, Housing and Community Services	Medium
	Overheating of Office equipment	Council unable to deliver key services and failing to meet targets and standards	All services particularly those relating to the Council's infrastructure such as IT	Medium
	Increased heat within Offices and vehicles	Infrastructure failure and health and safety issues for staff. Decreased productivity and demands for cooling which could lead to increase in CO2 emissions. Potential increased staff absence	All services particularly Neighbourhood Services	Medium
	Drought	Less water availability at properties and buildings	All services	Medium
		Lower water table which may lead to subsidence	Development and Assets	Low
		Damaged grass leading to reduced sport and use of open	Health and Leisure, Environmental Protection, Housing and	Low

Impact of Climate Change	Threat	Consequence	Service affected	Risk rating
		space/recreational areas	Community Services	
		Drying, cracking and shrinking of ground releasing leachate and gas from landfill sites	Environmental Protection	Low
		Tree damage	Health and Leisure, Neighbourhood Services	Low
		Trees falling onto power lines causing loss of telecommunications	All services	Low
		Inability to provide certain services reliant on water e.g. road sweeping	All services particularly Neighbourhood Services and Health and Leisure	Low
	Increase in odour and vermin	Increase in nuisance issues arising from waste streams	All services particularly Neighbourhood Services and Environmental Protection	Low
	Climate Change and inter related air pollution levels	Changes to air pollution levels causing increased respiratory problems	Environmental Protection	Low

Impact of Climate Change	Threat	Consequence	Service affected	Risk rating
	Increased heat waves	Damage to plants and ability to implement meaningful air pollution controls	Environmental Protection, Health and Leisure	Low
		Protective equipment worn for shorter periods	All services	Low
		Incidents of dogs dying	Health and Leisure	Low
		Increased frequency of dehydration/heat stroke among vulnerable groups	All services	Medium
Increasing winter temperatures (even though winter temperatures are projected to increase it is inevitable that cold spells and frost, snow and ice events will occur albeit at a lower frequency)	Low temperatures and cold spells	Increased slips, trips and falls within business and at Council buildings and land. Increased need for inspections and maintenance	Environmental Protection, Health and Leisure, Finance, Assets and Neighbourhood Services	Low/Medium
		Increased likelihood of injury to staff, customers and partners	All services	Low
		Staff may not be able to get to work	All services	Medium
		Excess winter deaths particularly among vulnerable groups	Housing and Community Services, Environmental	High

Impact of Climate Change	Threat	Consequence	Service affected	Risk rating
			Protection	
		Disruption to refuse collection service	Neighbourhood Services and Environmental Protection	Medium
		Frost damage to buildings and supplies	Assets	Medium
		Decreased road safety for all vehicles affecting access to services and increased possibility of road traffic accidents	All services	Medium
		Failure of suppliers and partners to deliver services	All services	Medium
		Staff absence resulting from caring responsibilities when other establishments are closed	All services	Medium
	Milder winters	Prolonged seasonal colds and flu leading to greater staff absence	All services	Low
		Lengthening of the growing season	Neighbourhood Services	Low
		Increase/change in pest species	Environmental Protection	Low

<b>Impact of Climate Change</b>	<b>Threat</b>	<b>Consequence</b>	<b>Service affected</b>	<b>Risk rating</b>
Increased winter precipitation	Fluvial flooding from watercourses and pluvial from rain	Increased need to maintain and clear land drainage systems	Environmental Protection	Medium
		Increased risk of flooding buildings and land used for recreational purposes	All services	Medium
		Reduced access to certain Council buildings	All services	Medium
		Release of ground contaminants from landfill sites	Environmental Protection	Medium
Combined climatic effects	Storms and high winds	Increased repair and clean up costs	All services	Medium
		Failure of supporting infrastructure for the Council's business	All services	Medium
		Increase in litter	Neighbourhood Services and Environmental Protection	Medium
	Fog/mist low cloud	Poor air quality	Environmental Protection, Health and Leisure	Medium

Impact of Climate Change	Threat	Consequence	Service affected	Risk rating
	Lightning	Damage to electrical systems, structural damage and fire	All services	Low
	Flooding combined with damage	Increased repair and clean up costs	Environmental Protection and Finance	Low
Indirect impacts resulting from Climate Change	Power disruption	Council buildings and services unable to function due to lack of heating, light and power	All services	Medium
	Social disorder	Increased demand on services	All services	Low
		Danger to staff working in the community	All services	Low

The risk rating score is based on the period 2010 to 2039 and is summarised as follows;

High – requires contingency plans and early warning system

Medium – may require some good housekeeping and risk mitigation

Low – impact can be tolerated and must be reviewed periodically

During 2010/11 the Council will be preparing adaptation plans to address any medium and high risks identified. As this progresses further risks maybe identified and these will be added to the work committed for the next financial year to achieve Level 3 of NI 188.

The future climatic conditions are based on the United Kingdom Climate Projections (UKCP09) document which permits exploration of potential impacts, vulnerabilities and adaptation options.