

London Borough of Wandsworth

**BOROUGH RISK
REGISTER**

September 2023

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Notes:

This Borough Risk Register is collectively owned by the Category 1 Responders (as defined by Schedule 1 to the Civil Contingencies Act 2004) within the Richmond & Wandsworth Borough Resilience Forum area.

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Member Agencies of the Borough Resilience Forum

Category 1 Responders

LB Richmond upon Thames – Local Authority	HM Coastguard	South West London and St George's Mental Health NHS Trust
	Environment Agency	
LB Wandsworth – Local Authority	Public Health England	St. Georges University Hospitals NHS Foundation Trust
Metropolitan Police Service	NHS England (London)	
British Transport Police	West Middlesex University Hospital	NHS Hounslow and Richmond Community Healthcare Trust
London Fire Brigade	Kingston Hospital	
London Ambulance Service	Southwest London Integrated Care Board	

Category 2 Responders

Port of London Authority	SW Trains	Thames Water
The London Heliport	UK Power Networks	
Transport for London	National Grid	
Met Office		

Non-categorised Organisations

British Red Cross	Military Liaison	Achieving for Children (Local Authority Education Provider)
St. Johns Ambulance	Rugby Football Union	
Royal National Lifeboat Institution	Royal Parks	

Borough Risk Register

1

Introduction

Risk assessment is a core capability for London and underpins the work of the London Resilience Forum. The assessment of risk contained in the London Risk Register drives the development of work to prevent, mitigate, respond to and recover from those scenarios.

The London Risk Register is made publicly available to assist communities and businesses in developing their own emergency and business continuity arrangements and is used as a basis for the creation of Borough Risk Registers in most Boroughs across London. It is available to download from the [London Resilience](#) website.

Borough Risk Register

The Wandsworth Borough Risk Register is used by Wandsworth Borough Resilience Forum to assist in prioritisation of resilience activities for higher rated risks. It provides additional information not available in the London Risk Register for the purpose of developing local arrangements.

Communities and businesses are also encouraged to use the Borough Risk Register to inform their own resilience arrangements and business continuity plans. It is for this reason that the Borough Risk Register is made publicly available.

The risks included in the Borough Risk Register represent ‘reasonable worst-case scenarios’ and their inclusion in the register does not mean that they are going to happen, or that if they did do that they would be as serious as the descriptions included here. The reasonable worst-case scenarios are nationally developed and informed by historical and scientific data, modelling and trend surveillance and professional expert judgment.

The Wandsworth Borough Risk Register is structured to follow closely the format and content of the London Risk Register so that it takes full advantage of the work carried out at by the experts in the London Risk Advisory Group.

Each risk is assigned a score for impact and likelihood. Impact is ranked from Limited (1) to Catastrophic (5) and likelihood by how likely a risk is to happen over the next 5 years. These scores are combined to give an overall risk rating.

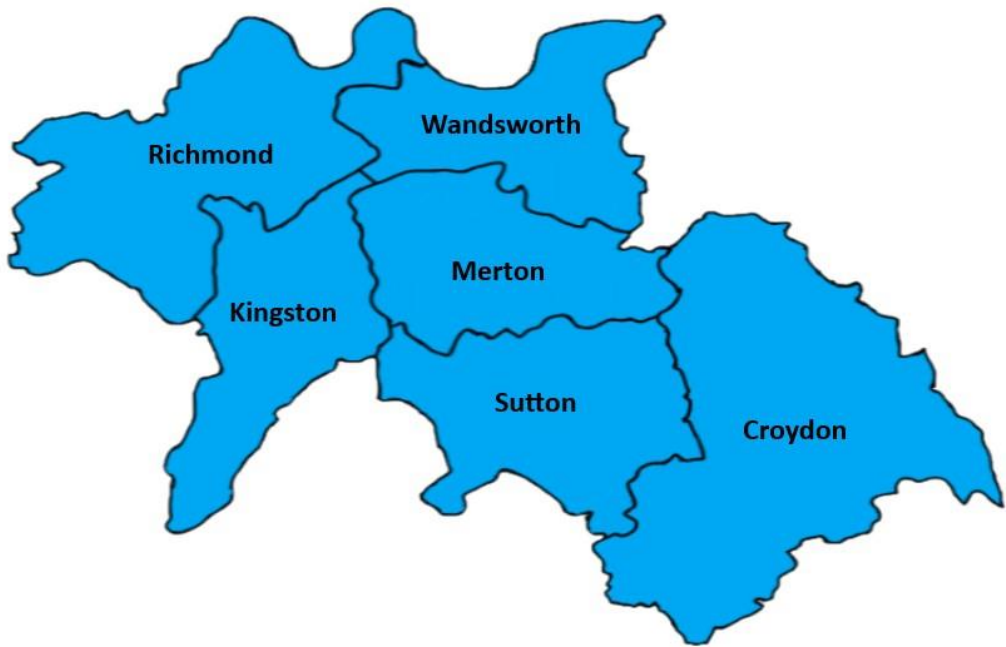
Wandsworth’s Borough Risk Register differs from the London Risk Register in two respects:

- If the local risk in the Borough is assessed by the Borough Resilience Forum to be higher or lower than the rating provided in the London Risk Register.
- If the direct impacts of a risk would be realized exclusively outside of the Borough.

The [UK National Risk Register of Civil Emergencies](#) provides an outline of risk affecting the UK as a whole.

2 About Wandsworth

The London Borough of Wandsworth is a southwest London Borough and is part of the South Region Resilience Forum (SRRF) along with the London Boroughs of, Croydon Kingston, Merton, Richmond upon Thames and Sutton.



Demographic Factors

- Population 327,506 in the borough as of 2021 with a high proportion aged between 25 – 34 compared to the London average.
- Groups 8 to 19 and 45 or over ranked amongst the lowest in the country.
- 88.4% of households with one resident aged 16 and over, main language was English as of 2021.
- Above national average below London average for households where no residents has English as main language (9.9%) aged 3 to 15 who had English as a main language (1.8%).
- A quarter of the population of Wandsworth is made up of BME groups.

Social Factors

- 71% households' spaces were in flats, maisonettes, or apartments as of 2021. Substantially more than the London average of 57%
- 48.1% were in purpose-built block, this has been rising substantially with Nine Elms area of the borough (10,000 additional homes being provided in this area for approximately 30,000 new residents).
- 22.2% of houses were terraced, with detached and semi-detached ranked one of the lowest in the country.
- High density emergencies affect more people and properties than similar emergencies in other areas, therefore more resources are required.

Environmental Factors

- Classified open space, comprising parks, health and common are a quarter of the land with a third occupied by residential properties.
- Rivers, which present a risk, are the River Thames, Beverly Brook, the Wandle, and the Graveney. The boroughs in the SW area are highly susceptible to surface water flooding.

Economic Infrastructure

- 93% businesses, are SWE's employing less than 10 employees.
- Majority lacking business continuity plan, creating mor vulnerability should an emergency occur.
- Five town centres (Wandsworth, Tooting, Balham, Putney and Clapham Junction) an important part of London's economic infrastructure.
- Health, professional scientific and technical, education, public administration and retailer are the broad industry group's employing the largest numbers.

- Health, retail, and education employ a higher proportional percentage of (38.5%).
- There are also a significant number of media and creative companies based in Wandsworth.
- Employment rate of 89.2% as of 2022, Significantly higher than the London average (76.2%)

Transport Infrastructure

- 400km of highways, 33.5km is a designated as TfL Road Network (Red Routes), 9km designated strategic road by the Secretary of State for Transport with keys roads of the Borough A3, A217, and A24.
- Rail includes 6 underground and 8 main lines.
- Clapham Junction Station, reported to be the busiest station in the UK for train movements (over 2000 per day). Clapham Junction links the South Coast and Southwest with central London at Victoria and Waterloo stations.
- 5 bus depots, 50 bus routes, and 15-night routes in operation.

Hazardous Sites

- Calor Gas Centre in Smugglers Way is a lower tier (COMAH) site within Wandsworth. The controlled site stores large quantities of LPG gas bottles, a hazard that fits criteria within COMAH regulations.

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Borough Risk Register: Risk Matrix (High-Level Summary)

Impact	(5) Catastr ophic	R64 - Toxic chemical release	R84 - Severe drought R68 - High consequence dangerous goods R74 - Reservoir/dam failure	R76 - National electricity transmission R95 – Influenza-type pandemic		
	(4) Significant	R71 – Aviation crash H5 - Fuel Supply infrastructure (pipelines) R66 – radiation releases from overseas accidents R61 – fires or explosions at an onshore fuel pipeline L66 - Radioactive incident caused by mishandling of radioactive material R55 - Fire or explosion at a fuel distribution site	HL19 - Coastal/tidal flooding R77 - Gas Supply Infrastructure R75 - Water supply infrastructure R61 - Complex built environments	HL11 - Railway Accident R83 - Surface water flooding H45 - Regional electricity transmission L21 - Fluvial flooding R92 – Severe Space weather	T7 - Catastrophic unconventional attack R54 – Major Fire L54a – Fires in purpose built high-rise flats	WL4 - Loss of mortuary provision T1 - Attacks on PALs
	(3) Moderate	R57 - Explosion at a high-pressure gas pipeline HL22 - Building collapse HL23 - Bridge collapse HL30 - Localised explosion at a natural gas main. HL34 - Evacuation of passenger ship WL1 - Fire involving acetylene cylinders. R62 – Accidental release of a biological pathogen	WL3 - Fire in buildings containing asbestos T4 - Cyber security (infrastructure) L64 - Localised industrial accident involving small toxic release R69 - Food Supply Contamination	R93 - Storms & Gales R91 – Low temperature and heavy snow R97 - Emerging infectious diseases T2 - Attacks on infrastructure L54d – Wildfires in proximity to large urban areas R96– The growth and spread of anti-microbial resistance L54e- Major fire in care homes and hospitals R85 – Poor air quality	R90 - Heatwave L19 - Groundwater flooding T3 - Attacks on transport system R63 – Accidental release of a biological Substance R87 - Volcanic eruption	
	(2) Minor	R67 - Maritime pollution R103 – Insolvency affecting fuel supply	HL7 - Industrial explosions and major fires H11 - Radiation exposure from stolen goods R78 – Disruption to or failure of telecommunications systems R102 – Industrial action (fuel supply) L54b – Fires in large public and commercial buildings R98 – Outbreak of animal diseases	HL21 - Land movement R101 – Industrial action (public transport) L71b – Minor Aviation crash	R105 - Influx of British nationals. T5 - Small scale unconventional attacks R79 – Technology failure at a major bank R80 – Systematic financial crisis R73 - Major social care provider failure R72 – Collapse of a major government contractor R100 – industrial action (prison officers)	L54c – Fires involving landfill and waste processing site R99 – Industrial actions (firefighters)
	(1) Limited	WL2 - Misuse and release of toxic or corrosive chemicals R70 – Radiation from stolen goods R94 – Earthquakes	R104 - Public disorder	R43– Undermining democratic activity	HL10 - Local accident on motorways and major trunk roads	

(1) Low	(2) Medium Low	(3) Medium	(4) Medium High	(5) High
Likelihood				

Each risk is assigned a Risk ID which is nationally consistent and relates to a more detailed and protectively marked, Individual Risk Assessment.

Risk ID		Outcome Description/Variation and Further Information		Impact Score		Controls in Place		Review Dates			
H – National HL – Local Response L – Locally Applicable		Describes the key consequences of the risk, provides additional detail around local variation from national planning assumptions		Of the risk consequences		Existing risk management arrangements		Date of last review and date of next scheduled review			
Ref ID	Risk sub-category (Lead Assessor)	Outcome Description/ Variation and Further Information		Likelihood	Impact	Controls in Place		Last Review	Next Review		
				Risk Rating							
Industrial and Environmental Pollution Incidents											
Risk Category		Likelihood Score		Risk Rating							
		Of the risk occurring in the next 5 years		Scale based on likelihood and impact							

4Borough Risk Register							
Ref ID	Risk sub-category	Outcome Description/ Variation and Further Information (Lead Assessor)	Likelihood	Impact	Controls in Place	Last Review	Risk Lead
			Risk Rating			Next Review	
Accident Hazards							
R54	Accident Hazards	Major Fire A major fire in a building resulting in up to 140 fatalities and 200 casualties, significant damage to the building affected and disruption to local transport services for up to a week.	4	4	<ul style="list-style-type: none">Regulatory Reform (Fire Safety) Order 2005Fire Safety Approved Document BFire & Rescue Services Act 2004LFB Guidance Note 29LFB Operational tactical and building plansLFB Urban Search & Rescue Teams (USAR)Fire Service National Resilience AssetsLAS Hazardous Area Response Team (HART)Local Authority Dangerous Structures EngineerCasualty BureauLondon Frameworks including: Strategic Coordination Protocol Mass Fatalities Framework Mass Casualties FrameworkHumanitarian Assistance Framework	May 2023 May 2025	LFB
L54a	Accident Hazards	Fires in purpose built high-rise flats	4	4	<ul style="list-style-type: none">Regulatory Reform (Fire Safety) Order 2005Fire Safety Approved Document B	May 2023 May 2025	

		Major fire in block of flats containing 80 compartments. Potential for 150-200 fatalities and 200 casualties	Very High		<ul style="list-style-type: none"> Fire & Rescue Services Act 2004 LFB Guidance Note 29 LFB Operational tactical and building plans LFB Urban Search & Rescue Teams (USAR) Fire Service National Resilience Assets LAS Hazardous Area Response Team (HART) Local Authority Dangerous Structures Engineer Casualty Bureau London Frameworks including: <ul style="list-style-type: none"> Strategic Coordination Protocol Mass Fatalities Framework Mass Casualties Framework <ul style="list-style-type: none"> Humanitarian Assistance Framework 	LFB
H5	Accident Hazards	Fuel Supply Infrastructure (Pipelines) Fire or explosion at a fuel distribution site, or at a site storing flammable and/or toxic liquids.	1	4	<ul style="list-style-type: none"> Control of Major Accident Hazard 1999 (COMAH) Regulations The Dangerous Substances and Explosive Atmosphere Regulations 2002 Petroleum Regulations Regulatory Reform (Fire Safety) Order 2005 Site Operators on-site contingency plans Emergency Services specialist resources 	May 2023 May 2025 LFB
L54e	Accident Hazards	Major Fire in Care Homes and Hospitals Fire causing up to 20 fatalities of vulnerable people in residence causing the closure of an entire hospital or care home.	3	3	<ul style="list-style-type: none"> Regulatory Reform (Fire Safety) Order 2005 Fire Safety Approved Document B Fire & Rescue Services Act 2004 LFB Guidance Note 29 LFB Operational tactical and building plans LFB Urban Search & Rescue Teams (USAR) Fire Service National Resilience Assets LAS Hazardous Area Response Team (HART) Local Authority Dangerous Structures Engineer Casualty Bureau London Frameworks including: <ul style="list-style-type: none"> Strategic Coordination Protocol Mass Fatalities Framework Mass Casualties Framework <ul style="list-style-type: none"> Humanitarian Assistance Framework 	May 2023 May 2025 LFB

R61	Accident Hazards	Fire or explosion at an onshore fuel pipeline Accidental fire or explosion occurs at an onshore fuel pipeline close to a populated area affecting an area around the explosion of up to 1km.	1	4	<ul style="list-style-type: none">Control of Major Accident Hazard 1999 (COMAH) Regulations.The Dangerous Substances and Explosive Atmosphere Regulations 2002Petroleum RegulationsRegulatory Reform (Fire Safety) Order 2005Site Operators on-site contingency plansEmergency Services specialist resources	May 2023 May 2025 LFB
			Medium			
R55	Accident Hazards	Fire or explosion at a fuel distribution site Fire or explosion at a fuel distribution site, or at a site storing flammable and/or toxic liquids.	1	4	<ul style="list-style-type: none">Control of Major Accident Hazard 1999 (COMAH) Regulations.The Dangerous Substances and Explosive Atmosphere Regulations 2002Petroleum RegulationsRegulatory Reform (Fire Safety) Order 2005Site Operators on-site contingency plansEmergency Services specialist resources	May 2023 May 2025 LFB
			Medium			
R57	Accident Hazards	Explosion at a high-pressure gas pipeline Fire or explosion at a gas pipeline following ignition of gas under high pressure. This could result in a crater, destruction of buildings and evacuation of homes, as well as a cloud of gas/vapour. <i>(London Fire Brigade)</i>	1	3	<ul style="list-style-type: none">Pipeline Safety Regulations 1996.Regulatory and industry measures including provision of maps for excavation.Emergency Services and other responder specialist resources.	May 2023 May 2025 LFB
			Medium			
R71	Accident Hazards	Aviation Crash The worst-case scenario involves the collision of two commercial aircrafts. <i>(London Fire Brigade)</i>	1	4	<ul style="list-style-type: none">Stringent controls on aircraft entering UK Airspace including the mandatory use of Aircraft Collision Avoidance systems on heavy aircraft.Number of Airlines detailed in above history are regulated not to enter UK airspace.CAA Maintenance and Flight safety standards exceed ICAO recommendationsAirline maintenance regimes subject to CAA scrutiny and regulation.Strict controls over London Approach.	May 2023 May 2025 LFB
			Medium			
L64	Accident Hazards	Localised industrial accident involving small toxic release Localised industrial accident involving small toxic release impacting up to 1km from site causing up to 10 fatalities and up to 100 casualties. <i>(London Fire Brigade)</i>	2	3	<ul style="list-style-type: none">Control of Major Accident Hazards Regulations 2005 (COMAH).Regulatory Reform (Fire Safety) Order 2005.Planning for emergencies in the capital London City Hall	May 2023 May 2025 LFB
			Medium			
L54c	Accident Hazards	Fires Involving Landfill and waste Processing Site Major fire lasting several days with	5	2	<ul style="list-style-type: none">Regulatory Reform (Fire Safety) Order 2005Fire Safety Approved Document B	May 2023 May 2025

		significant environmental and local impacts.	Medium		<ul style="list-style-type: none"> Fire & Rescue Services Act 2004 LFB Guidance Note 29 LFB Operational tactical and building plans LFB Urban Search & Rescue Teams (USAR) Fire Service National Resilience Assets LAS Hazardous Area Response Team (HART) Local Authority Dangerous Structures Engineer Casualty Bureau London Frameworks including: <ul style="list-style-type: none"> Strategic Coordination Protocol Mass Fatalities Framework Mass Casualties Framework Humanitarian Assistance Framework 	LFB
L54b	Accident Hazards	Fires in Large Public and Commercial Buildings Fire in large public building e.g. nightclub, sports stadium, shopping centre, transport hub or other. Potential for up to 50 fatalities and 50 casualties.	2	2	<ul style="list-style-type: none"> Regulatory Reform (Fire Safety) Order 2005 Fire Safety Approved Document B Fire & Rescue Services Act 2004 LFB Guidance Note 29 LFB Operational tactical and building plans LFB Urban Search & Rescue Teams (USAR) Fire Service National Resilience Assets LAS Hazardous Area Response Team (HART) Local Authority Dangerous Structures Engineer Casualty Bureau London Frameworks including: <ul style="list-style-type: none"> Strategic Coordination Protocol Mass Fatalities Framework Mass Casualties Framework Humanitarian Assistance Framework 	May 2023 May 2025 LFB
L66	Accident Hazards	Radiation Releases from Overseas Accidents A radioactive substance release that affects the UK because of a nuclear accident overseas e.g. at a waste storage facility. UK outcome could include initial food restrictions, potential transport disruptions and impacts to the health system including the presentation of worried well.	1	4	<ul style="list-style-type: none"> REPPiR 	May 2023 May 2025 LFB

R66	Accident Hazards	Radioactive incident caused by mishandling of radioactive material	1	4	<ul style="list-style-type: none">• Radiation Monitoring Equipment deployed in affected areas.• London Fire Brigade Mass Decontamination Procedures• Scientific Technical Advice Cell (STAC)• Scientific Advice to Government in Emergencies (SAGE)• Radiation Protection Advisors	May 2023 May 2025
		A radioactive substance released in London because of an accident at a site or during transportation of radioactive material.	Medium			LFB
HL7	Accident Hazards	Industrial explosions and major fires	2	2	<ul style="list-style-type: none">• Legislation: Control of Major Accident Hazards (COMAH) Regulations 1999.• Regulatory Reform (Fire Safety) Order 2005.• Building design and fire protection systems to prevent or limit the spread of fire.• Emergency Services and other responder specialist resources.	May 2023 May 2025
		A fire or explosion at a flammable gas terminal (including LPG/LNG storage sites) reaching 1km around site, causing up to 50 fatalities and 150 casualties. <i>(London Fire Brigade)</i>	Medium			LFB
L71b	Accident Hazards	Minor Aviation Crash	3	2	<ul style="list-style-type: none">• Stringent controls on aircraft entering UK Airspace including the mandatory use of Aircraft Collision Avoidance systems on heavy aircraft.• UK flight separation rules.• CAA Maintenance and Flight safety standards.• Airline maintenance regimes.• Planning for emergencies in the capital London City Hall	May 2023 May 2025
		Accident involving one commercial aircraft on take off or landing. Aviation accident causing up to 50 fatalities and up to 250 casualties. <i>(London Fire Brigade)</i>	Medium			LFB
HL10	Accident Hazards	Local accident on motorways and major trunk roads	4	1	<ul style="list-style-type: none">• The Road Traffic Act 1988.• The Road Vehicle (Construction and Use) Regulations 1986.• The Traffic Management Act 2004.	May 2023 May 2025
		Multiple vehicle incident causing up to 10 fatalities and up to 20 casualties (internal injuries, fractures, possible burns); closure of lanes or carriageway causing major disruption and delay. <i>(Metropolitan Police Service)</i>	Low			MPS
HL11	Accident Hazards	Railway Accident	3	4	<ul style="list-style-type: none">• Railway and Transport Safety Act 2003.• Railways (Access and Management) Regulations 2005.• Railways (Accident Investigation and Reporting) Regulations 2005• Railways (Licensing of Railway Undertakings) Regulations 2005.• Railways Act 2005.• The Health and Safety (Enforcing Authority for Railways and Other Guided Transport Systems) Regulations 2006.• The Railway Safety Levy Regulations 2006.• The Railways Act 1993.• Transport Act 2000.• Health and Safety at Work etc. Act 1974.• The Railway (Safety Case) Regulations 2000	Aug 2021 Aug 2023
		Up to 30 fatalities and up to 100 casualties (fractures, internal injuries – burns less likely). Possible loss of freight. Major disruption to rail line including possible closure of rail tunnel. <i>(British Transport Police)</i> Due to Clapham Junction being situated in Wandsworth, the impact is greater than stated in the London Risk Register. NB: Clapham Junction Railway Station is situated within the Borough, with over 2000 train movements and 430,000 people a day passing through any incident would have a serious impact and could involve large numbers of people.	Very High			MPS

HL 22	Accident Hazards	Building Collapse Collapse of a large building (high-rise block, shopping mall etc). Up to 100 fatalities depending on the size and construction of building, and occupation rates, and 350 casualties. Potential for a number of persons to be trapped or missing. Localised loss of power and other essential services. Local access routes affected due to road closures. <i>(Local Authorities)</i>	1	3	<ul style="list-style-type: none">• Building Control regulations enforced by Local Authorities.• Construction, renovation, maintenance and demolition standards and enforcement.• Emergency Services and other responder's specialist resources.• Planning for emergencies in the capital London City Hall	May 2023 May 2025 Local Authority
			Medium			
HL23	Accident Hazards	Bridge Collapse Roads, access roads and transport infrastructure impassable for considerable length of time. Severe congestion over wide geographical area. Emergency access into / out of large populated areas severely restricted. Potential for a number of persons to be trapped or missing. <i>(Local Authorities)</i>	1	3	<ul style="list-style-type: none">• Building Control regulations enforced by Local Authorities.• Highways Act Regular inspections.• Height and weight restrictions and signs reduce the likelihood of an incident.• Planning for emergencies in the capital London City Hall	May 2023 May 2025 Local Authority
			Medium			
HL30	Accident Hazards	Localised explosion at a natural gas main. Localised explosion at a natural gas (low and medium pressure main causing up to 100 fatalities and up to 100 casualties. <i>(London Fire Brigade)</i>	1	3	<ul style="list-style-type: none">• Pipeline Safety Regulations 1996.• Regulatory and industry measures including provision of maps for excavation.• Emergency Services and other responder specialist resources.	May 2023 May 2025 LFB
			Medium			
HL34	Accident Hazards	Evacuation of passenger ship Incident involving a passenger vessel in or close to UK waters leading to the ship's evacuation (or partial evacuation). A major incident involving a passenger vessel operating on the tidal Thames within the London Resilience area may result in a major loss of life by drowning. <i>(Maritime and Coastguard Agency)</i>	1	3	<ul style="list-style-type: none">• Port of London Act 1968 (as amended),• General Directions for Navigating in the Port of London,• Port of London Thames Byelaws 2012• International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators, Regulations enforced by Flag States and subject to rigorous• Port State Control checks, co-ordinated in European waters MCA (Class V legislation and High Speed Craft Code)• Port Marine Safety Code	May 2018 May 2020 MCA
			Medium			
R67	Accident Hazards	Maritime pollution incident The release of significant quantities of hazardous chemicals/materials as a result of a major shipping incident. Fatalities and casualties unlikely. Significant environmental/ecological damage expected. <i>(Maritime and Coastguard Agency)</i>	1	2	<ul style="list-style-type: none">• Port of London Thames Byelaws 2012• Dangerous Substances in Harbour Areas Regulations 1987• Dangerous Substances in Bulk Byelaws 1991• Merchant Shipping (Oil Pollution Prevention, Response and Cooperation Convention) Regulations 1998• On-site & off-site COMAH plans for TDG European Chemicals, Dagenham.• IMO HNS Convention – has not been ratified in the UK.	May 2018 May 2020 MCA
			Low			

R61	Accident Hazards	<p>Complex built environments</p> <p>The following outcomes are possible as a consequence of a major incident affecting large buildings / complex built environments. Incidents in these facilities have the potential to trigger a complex chain of events that lead to serious consequences for public safety. <i>(Local Authority)</i></p>	2	4	<ul style="list-style-type: none"> • Health and Safety at Work Act 1974. • Management of Health & Safety at Work Regulations 1999. • Fire and Rescue Services Act 2004 & guidance pursuant to the Regulatory Reform (Fire Safety) Order 2005. • Safety at Sports Grounds Act 1975 and Fire Safety and Safety of • Places of Sport Act 1987. • Local building safety systems and practices. • Safety Advisory Groups in place at major sports grounds. • Planning for emergencies in the capital London City Hall 	<p>May 2023 May 2025</p> <p>Local Authority</p>
Disease Hazards						
H23	Disease Hazards	<p>Influenza-type pandemic</p> <p>A worldwide outbreak of influenza occurs when a novel flu virus emerges with sustained human to human transmission. Up to 50% of the population may experience symptoms, which could lead to up to 750,000 fatalities in total in the UK. Absenteeism would be significant and could reach 20% for 2-3 weeks at the height of the pandemic, either because people are personally ill or caring for someone who is ill, causing significant impact on business continuity.</p>	3	5	<ul style="list-style-type: none"> • NHS Vaccination programme (Seasonal and provision for pandemic specific). • Specific NHS capacity and response planning. • Comprehensive surveillance systems. • Planning for emergencies in the capital London City Hall 	<p>May 2023 May 2025</p> <p>UKHSA</p>
R96	Disease Hazards	<p>The Growth and Spread of Anti-Microbial Resistance</p> <p>The emergence of a pan-resistance, highly virulent bacterial strain causing a number of different pan-resistant bacterial infections to develop that can spread between people. Existing control measures would be overwhelmed, and transmissions would be sustained between health care settings and communities.</p>	3	3	<ul style="list-style-type: none"> • Health & Safety at Work etc Act 1974 • Management of Health & Safety at Work Regulations 1999 • Health Sector response plans. • Regulation and audit by HSE • Guidance produced by UKHSA for acute trusts to control spread of CPE • The Advisory Committee on Dangerous Pathogens (ACDP) • Carriage of Dangerous Goods (Classification, Packaging and Labelling Regulations • Genetically Modified Organisms (Contained Use) Regulations 2014 	<p>May 2023 May 2025</p> <p>UKHSA</p>
R97		Emerging infectious diseases	3	3	<ul style="list-style-type: none"> • NHS Vaccination Programme. 	May 2023

	Disease Hazards	Based upon the experience of the outbreak of SARS and more recently, MERS and Ebola, the worst case likely impact of such an outbreak originating outside the UK would be cases occurring amongst returning travellers and their families and close contacts, with spread to health care workers within a hospital setting. However, it is unlikely to present a wider threat to the UK through sustained spread.	High		<ul style="list-style-type: none"> Specialist capability and capacity planning in NHS trusts. Comprehensive surveillance systems and response arrangements. Local Outbreak Control Plans Planning for emergencies in the capital London City Hall 	May 2025 UKHSA
R98	Disease Hazards	Outbreak of Animal Diseases No longer required separation (HL26a & HL26b) so combined, and recognition that H24 Emerging Infectious Diseases covers elements of this.	2	2	<ul style="list-style-type: none"> Animal Health Act 1981. Animal Health Act 2002. Other secondary legislation and EU directives. National disease control strategies. 	May 2023 May 2025 Local Authority
Hazardous Materials (HAZMAT)						
R64	HAZMAT	Toxic Chemical Release Large toxic chemical release caused by release of chlorine or a number of other chemicals. This incident arises from possible mechanical equipment/process failure or corrosion, and not necessarily involving fire or explosion. <i>(London Fire Brigade)</i>	1	5	<ul style="list-style-type: none"> Control of Major Accident Hazards Regulations 2005 (COMAH). Regulatory Reform (Fire Safety) Order 2005. Emergency Services and other responder specialist resources. Planning for emergencies in the capital London City Hall 	May 2023 May 2025 LFB
R70	HAZMAT	Radiation exposure from stolen goods Incorrect handling of a stolen radioactive source leads to accidental exposure to radioactive material. Three deaths after a month and eight people requiring long term medical supervision. Up to 500 'worried well'.	1	1	<ul style="list-style-type: none"> Radioactive Substances Act 1993. High Activity Sealed Source Regulations 2005. Arrangements for safe handling and disposal of radioactive sources. Radiation detectors at high risk sites. Environment Agency inspections of all major sources. Emergency Services specialist resources. Planning for emergencies in the capital London City Hall 	May 2023 May 2025 LFB
R69	HAZMAT	Food Supply Contamination A major contamination incident involving a microbiological pathogen in the food chain causing illness, hospitalisation and possible fatalities in a moderate to large number of people over a period of a few days to weeks to identify the contaminate and months for the response. <i>(Local Authorities)</i>	2	3	<ul style="list-style-type: none"> Food Safety Act 1990. Imports monitored. Local Authority Environmental Health Sampling. Public Health England monitoring and surveillance. Food Standards Agency plans. 	May 2023 May 2025 Local Authority

	HAZMAT	Maritime Pollution A large fully laden oil super tanker sinks in the approach to a port leading to the spillage of 100,000 tonnes of crude oil into the sea polluting up to 200km of coastline. The scenario assumes no loss of access to Liquefied Natural Gas (LNG) terminals or other major port infrastructure. (<i>Maritime and Coastguard Agency</i>)	1	2	<ul style="list-style-type: none"> • Dangerous Substances in Harbour Areas Regulations 1987. • Merchant Shipping (Oil Pollution Preparedness, Response and Cooperation Convention) Regulations 1998. • PLA Thames Byelaws 2012 • Port of London Oil Spill Contingency Plan • Port State Control checks coordinated in European waters. • All vessels navigating on the tidal Thames required PLA licence. • PLA Vessel Traffic Service. • National Contingency Plan for Marine Pollution from Shipping and • Offshore Installations (2000). • Oil Spill Contingency Plan Guidelines for Ports, Harbours & Oil • Handling Facilities. 	Feb 2017 Feb 2019 MCA
R63	HAZMAT	Accidental Release of a Biological Substance Inadvertent release of a biological agent caused by an unrelated work activity (e.g. Legionella release due to improperly maintained building environmental control systems) that causes up to 7 fatalities and up to 500 people requiring hospital admissions	4	3	<ul style="list-style-type: none"> • Health & Safety at Work Act etc 1974 • Control of Substances Hazardous to Health Regulations 2002 • The Notification of Cooling Towers and Evaporative Condenser Regulations 1992 require the notification of wet cooling towers and evaporative condensers to local authorities • Management of Health & Safety at Work Regulations 1999 • Reporting of Injuries Diseases and Dangerous Occurrences Regulations 	May 2023 May 2025 UKHSA
R62	HAZMAT	Accidental release of Biological Pathogen Biological substance release from a facility where pathogens are handled deliberately (e.g. Hazard Group 3 or 4 pathogen release from containment laboratory). A pathogen is accidentally released from a containment laboratory in an urban area that causes up to 5 fatalities, up to 500 hospital admissions, and a further 1500 nonhospital cases.	1	3	<ul style="list-style-type: none"> • Animal Health Act 1981 • Specified Animal Pathogens Order 1998 • Health & Safety at Work etc Act 1974 • Control of Substances Hazardous to Health Regulations 2000 • Management of Health & Safety at Work Regulations 1999 • Reporting of Injuries Diseases and Dangerous Occurrences Regulations • Carriage of Dangerous Goods (Classification, Packaging and Labelling Regulations H12 • Genetically Modified Organisms (Contained Use) Regulations 2000 • Regulation, audit and enforcement of legislation by HS 	May 2023 May 2025 UKHSA
R68	HAZMAT	High consequence dangerous goods	2	5	<ul style="list-style-type: none"> • Health & Safety at Work etc Act 1974. 	May 2023 May 2025

		<p>A road or rail tanker containing dangerous goods and/or “high consequence” dangerous goods is involved in an accident leading to fire and an explosion. Up to 200 fatalities and up to 500 people requiring medical treatment. The explosion will cause varying degrees of damage to property and infrastructure depending on their distance from the incident. This risk would result in a toxic plume/gas cloud which would be harmful to the population, resulting in evacuation of the immediate area.</p>	<p>Very High</p>	<ul style="list-style-type: none">• Control of Substances Hazardous to Health Regulations 2002.• Management of Health & Safety at Work Regulations 1999.• Reporting of Injuries Diseases and Dangerous Occurrences Regulations.	<p>LFB</p>
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Humanitarian Hazards						
R10 5	Humanitarian	Influx of British Nationals Influx of destitute/vulnerable British Nationals who are not normally resident in the UK and cannot be accommodated by family/friends. Up to 10,000 BNs not normally resident in the UK returning to the UK within a 3-4 week period following conventional war, widespread civil unrest or sustained terrorism campaign against British and other Western nationals. Around 2% of returnees require statutory support including housing, health services and access to welfare.	4	2	<ul style="list-style-type: none">Local authority: Standard social care and emergency housing arrangements. Existing mutual aid agreements in place across London.Other organisations: Full time officer located at Heathrow (alongside Heathrow TravelCare) to consider the issue of repatriation at ports. Position funded by the Foreign & Commonwealth Office.Heathrow Travel Care – a team of social workers.Red Cross and FCO agreement on repatriation; Meet & greet returning passengers at airport, arrange onward transport, supported by the FCO.	May 2023 May 2025 Local Authority
			Medium			
R10 4	Humanitarian	Public Disorder Large scale public disorder at site(s) in a single city, or in multiple cities, occurring concurrently over several days. (MPS)	2	1	<ul style="list-style-type: none">Specific riot and public order legislation.Riot Compensation Act 2016.Public Order Act 1986.Police community tension monitoring processes.Police community engagement teams.Advice and guidance from police regarding legitimate protest from event planners.	Dec 2019 Dec 2021 MPS
			Low			
Industrial Action						
R10 2	Industrial Action	Industrial action (fuel supply) Significant disruption to fuel supplies because of insolvency at a key refinery or terminals. Primary impacts are disruption to the production and/or supply of refined fuel products. Shortages can cause elevated short-term demand.	2	2	<ul style="list-style-type: none">Reserve fleet of Road tankersTemporary financial assistance to some orgs to maintain fuel supplies while market responds.Central government arrangements for emergency fuel deliveries from downstream oil industry to maintain deliveries to key sites.	May 2023 May 2025 Local Authority
			Medium			
R10 0	Industrial Action	Industrial Action (Prison Officers) Industrial action by operational prison staff, leading to a shortfall of staff available for duty for more than 24 hours	4	2	<ul style="list-style-type: none">Criminal Justice and Public Order Act (1994)	May 2023 May 2025 MoJ
			Medium			
R99	Industrial Action	Industrial Actions (firefighters)	5	2	<ul style="list-style-type: none">Police Act (1996)	May 2023 May 2025

		A national fire strike in England for a continuous eight-day period with loss of life directly attributable to a weakened response by individual fire and rescue services, and reputational impact on government	Medium		<ul style="list-style-type: none"> RCN Code on Industrial Action Alternative emergency cover protocols for the Fire Brigade Organisational Business Continuity Arrangements Recall to active duty 	LFB
R10 1	Industrial Action	Industrial action (public transport) Strike action by key rail or London Underground staff (e.g. signallers) resulting in the total shutdown of very significant amounts of the national rail network or about ¾ of the London Underground network. In both cases severe disruption could last for a week as part of a three-month campaign. <i>(British Transport Police)</i>	3	2	<ul style="list-style-type: none"> Health and Safety at Work Act 1974. Employment Act 1980. Employment Act 1988. Public Order Act 1986. Trade Union and Labour Relations (Consolidation) Act 1992. Anti-Social Behaviour Act 2003. Organisational Business Continuity Arrangements. 	Dec 2017 Dec 2019 BTP
Infrastructure and Systems Failure						
R77	Systems Failure	Gas Supply Infrastructure A technical failure or accident in an upstream oil/gas facility, gas import pipeline terminal, or Liquefied Natural Gas (LNG) import reception facility leading to disruption in UK gas supplies. <i>(London Fire Brigade)</i>	2	4	<ul style="list-style-type: none"> National Emergency Plan for Fuel. Planning for emergencies in the capital London City Hall 	May 2023 May 2025 LFB
HR7 5	Systems Failure	Water Supply Infrastructure Failure of water infrastructure or loss of drinking water caused by the complete and relatively sudden loss of piped water supply or the degradation of the piped supply such that it is unfit for human consumption even after boiling. The RWCS assumes up to 350,000 people affected for between 24 hours and two weeks.	2	4	<ul style="list-style-type: none"> Water Industry Act 1991. Security and Emergency Measures Direction 1998. Water companies mutual aid arrangements in place. Planning for emergencies in the capital London City Hall <p>Due to the high number of tower blocks in Wandsworth, the impact is greater than stated in the London Risk Register.</p>	Aug 2021 Aug 2023 Thames Water
R79	Systems Failure	Technology Failure at Major Bank	4	2	<ul style="list-style-type: none"> Financial services sector plans to deal with a surge in 	

		A technological failure which renders a significant portion of a retail bank's IT inoperable. Immediate effects last for 48-72 hours, with some customers experiencing disruption for several weeks as backlogs are cleared and potentially also some permanent data loss or data corruption.	Medium		<ul style="list-style-type: none"> • demand for consumer facing financial services • Communication plans to encourage consumer awareness which can be coordinated between HM Treasury, the Bank of England, and the Financial Conduct Authority • Collective incident response capability under the Authorities Response Framework • Business Continuity Management plans for financial service sector firms and their regulators. 	
R73	Systems Failure	Major Social Care Provider Failure The failure of a major domiciliary care provider affecting 20,000 vulnerable people and their families	4	2	<ul style="list-style-type: none"> • Contingency planning for a large-scale incident of this type • would remain with central government • Local authority service continuity plans 	May 2023 May 2025 Local Authority
R72	Systems Failure	Collapse of a major government contractor The collapse of a major provider of integrated facilities and construction services for a range of private and public organisations	4	2	<ul style="list-style-type: none"> • Commercial business continuity and contingency plans • Service continuity plans to maintain critical services 	May 2023 May 2025 Local Authority
R78	Systems Failure	Disruption to or failure of telecommunications systems Loss of fixed and mobile telecommunications (both voice service and internet access) for up to 100,000 people for up to 72 hours. (<i>Metropolitan Police Service</i>)	2	2	<ul style="list-style-type: none"> • Civil Contingencies Act 2004. • Telephone provider demand and network capacity management strategies. • National Emergency Alert for Telecoms. • Planning for emergencies in the capital London City Hall 	May 2023 May 2025 LFB
R76	Systems Failure	National Electricity Transmission A total national blackout due to the loss of the GB National Electricity Transmission System caused by damage to or technical failure of the transmission network. The technical recovery process (Black Start) could take up to 5 days; however, there is the potential for wide area power disruptions for up to 14 days, potentially affecting millions of consumers. (<i>London Fire Brigade</i>)	3	5	<ul style="list-style-type: none"> • Testing and maintenance regime. • London Power Supply Disruption Plan • EDF Energy System Emergency Plan. <ul style="list-style-type: none"> - EDF Energy Emergency Communication Plan. - EDF Energy Black Start Plan. • Business Continuity Plans for Category 1 and 2 Responders, businesses and other key organisations • London Power Supply Disruption Plan • Major Incident/Emergency Plans for Category 1 and 2 Responders. 	May 2023 May 2025 LFB
R74	Systems Failure	Reservoir/Dam Failure	2	5	<ul style="list-style-type: none"> • Reservoirs Act, 1975. 	May 2023 May 2025

		A reservoir or dam collapses without warning resulting in almost instantaneous flooding. Significant movement of debris (including vehicles) and sediment. Complete destruction of some residential and commercial properties and serious damage of up to 500 properties. Several thousand other properties could be flooded. <i>(Environment Agency)</i>	Very High		<ul style="list-style-type: none"> Water Act, 2003. Regular statutory inspections. Met Office National Severe Weather Warning Service. Planning for emergencies in the capital London City Hall 	EA
H45	Systems Failure	Regional Electricity Transmission A significant failure of the electricity network across one or more regions of Great Britain affecting large numbers of customers (approximately 1 million) for up to 24 hours or up to 72 hours for some people. <i>(London Fire Brigade)</i>	3	4	<ul style="list-style-type: none"> Testing and maintenance regime. EDF Energy System Emergency Plan. EDF Energy Emergency Communication Plan. EDF Energy Black Start Plan. London Power Supply Disruption Framework 	May 2023 May 2025 LFB
Natural Hazards						
H17	Natural Hazards	Storms and Gales Storm force winds affect multiple regions for at least 6 hours during a working day. Most inland and lowland areas experience mean speeds in excess of 55mph and gusts in excess of 85mph. <i>(Local Authorities)</i>	3	3	<ul style="list-style-type: none"> Met Office Hazard Manager service. Warning & Informing internally and externally. Category 1 & 2 responders emergency response plans. Highways Agency response plans. TfL adverse weather plans. LFB USAR and Water Rescue capabilities. 	May 2023 May 2025 Met Office
H18	Natural Hazards	Low Temperatures and Heavy Snow Low temperatures and snow (falling and lying) over substantial areas of low-lying land, (below 300m) for at least one week. After an initial fall of snow, there is further snowfall on and off for at least 7 days. Most lowland areas experience some falls in excess of 10cm at a time, with overall snow depth in excess of 30cm. This would coincide with a period of at least 7 consecutive days with a daily mean temperature below -3°C. <i>(Local Authorities)</i>	3	3	<ul style="list-style-type: none"> Met Office Hazard Manager service. Warning & Informing. Category 1 & 2 responders emergency response and BCM plans. Category 1 & 2 responders severe weather plans. Highways Agency, TfL and local authorities' winter road maintenance plans. Met Office forecasts & National Severe Weather Warning Service TfL snow desk. Op GRIDLOCK to support motorists stranded on M25. 	May 2023 May 2025 Met Office
R83	Natural Hazards	Surface Water Flooding	3	4	<ul style="list-style-type: none"> Flood and Water Management Act 2010 	May 2023 May 2025

		Surface water flooding in a large metropolitan area caused by a warm unstable atmosphere, most likely to occur in summer due to the warmer atmosphere having a greater water holding capacity, causes a pattern of convective rainfall events.	Very High		<ul style="list-style-type: none"> • The Flood Risk Regulations 2009 • Land Drainage Act 1991 • Water Resources Act 1991 • FFC – Flood Guidance Statements • New building developments controlled through planning guidelines • Multi Agency Flood Plans • London Strategic Flood Framework • National Flood Emergency Plan 	EA
R87	Natural Hazards	Volcanic Eruption Volcanic ash incursions for up to 25 days (assumed not to be sulphur-rich) resulting in sporadic and temporary closures of significant parts of UK airspace for up to a total of 15 days (possibly non-consecutive) during a three-month eruption period. <i>(Greater London Authority)</i>	4	3	High <ul style="list-style-type: none"> • Met Office Volcanic Ash Advisory Centre forecasting. • CAA Volcanic Ash Safety Regime. • Airline response plans. 	May 2023 May 2025 Local Authority
R92 6	Natural Hazards	Severe Space Weather Disruption to the electricity grid, resulting in two rural/coastal sub-station disconnections each effecting communities of approx. 100,000 people, with loss of power for 1 month or more and rota-disconnections for a further 1 month or more. Voltage instability may also result in local blackouts, most likely in urban areas lasting a few hours. <i>(Greater London Authority)</i>	3	4	Very High <ul style="list-style-type: none"> • Electricity Industry monitoring and analysis of GIC. • Space Weather is assessed as part of the Daily Hazards Assessment. • National Grid design standards and response arrangements. • Alternative positioning, navigation and timing signal systems. • Forecasting through Met Office Space Weather Operations Centre. 	May 2023 May 2025 Met Office

H58	Natural Hazards	Wildfires in proximity to large urban areas A major wildfire spreading over an area of over 100 hectares at the urban-rural interface. Significant environmental impacts and risks to residential property and essential services.	3	3	<ul style="list-style-type: none">London Fire Brigade borough specific rural strategies.Specialist firefighting equipment and resources.	May 2023 May 2025 LFB
			Medium			
L19	Natural Hazards	Groundwater Flooding Following unprecedented amounts of extended above average rainfall throughout 3 winter months groundwater levels are exceptionally high throughout London. The main areas of concern are in the South East of London where the geology is predominately chalk.	4	3	<ul style="list-style-type: none">Flood and Water Management Act 2010.The Flood Risk Regulations 2009.Land Drainage Act 1991.Water Resources Act 1991.The London Plan.Civil Contingencies Act 2004.Environment Agency Floodline.FFC – Flood Guidance Statements.Multi Agency Flood Plans.London Strategic Flood Framework.National flood emergency plan.	May 2023 May 2025 EA
			High			
HL 19	Natural Hazards	Coastal/Tidal Flooding Localised tidal flooding resulting from sudden breach of a section of the Thames tidal wall or embankment caused by a vehicle collision or construction incident or a failure of a tidal flood gate coinciding with high tides on the river Thames.	2	4	<ul style="list-style-type: none">Flood and Water Management Act 2010.The Flood Risk Regulations 2009.Land Drainage Act 1991.Water Resources Act 1991.The London Plan.Civil Contingencies Act 2004.Environment Agency Floodline.FFC – Flood Guidance Statements.Multi Agency Flood Plans.London Strategic Flood Framework.National flood emergency plan.	May 2023 May 2025 EA
			High			

L21	Natural Hazards	Fluvial Flooding Successive bands of frontal rainfall saturate river catchments (soil moisture deficit is at zero) and fill river channels to full capacity. High intensity heavy rainfall causes fluvial rivers in London (tributaries to the Thames) to exceed channel capacity. Flooding happens very quickly with little warning and time for evacuations. <i>(Environment Agency)</i>	3	4	<ul style="list-style-type: none"> Flood and Water Management Act 2010. The Flood Risk Regulations 2009. Land Drainage Act 1991. Water Resources Act 1991. The London Plan. Civil Contingencies Act 2004. Environment Agency Floodline. FFC – Flood Guidance Statements. Multi Agency Flood Plans. London Strategic Flood Framework. National flood emergency plan. 	May 2023 May 2025 EA
HL 21	Natural Hazards	Land Movement Roads and access routes impassable for a time. Emergency access into/out of large populated areas difficult or impossible; severe congestion over wide geographical area. Loss of power and other essential services over wide geographical area. Potential for a number of persons to be trapped or missing either in landslides itself and/or in collapsed structures. <i>(London Fire Brigade)</i>	3	2	<ul style="list-style-type: none"> Land use planning restrictions. Building Control regulations enforced by Local Authorities. Construction, renovation, maintenance and demolition standards. 	May 2023 May 2025 LFB
R94	Natural Hazards	Earthquake An earthquake that results in the ground shaking with an intensity of six on the European Macroseismic Scale (EMS), this is classed as 'strong'. Many houses and buildings suffer slight non-structural damage like hair-line cracks and falling of small pieces of plaster.	1	1	London and national generic response plans <ul style="list-style-type: none"> Site clearance Evacuation & Shelter Recovery Mutual aid arrangements Specialist fire and rescue assets	May 2023 May 2025 Local Authorities
R90	Natural Hazards	Heatwave Daily maximum temperatures in excess of 32°C and minimum temperatures in excess of 15°C over most of a region for around 2 weeks at least with 5 consecutive days where maximum temperatures exceed 32°C. Up to 1,000 fatalities and 5,000 casualties, mainly amongst the elderly. There could be disruption to power supply, telecommunications links and transport infrastructure within the 2 weeks. <i>(Health)</i>	4	3	<ul style="list-style-type: none"> Health & Safety at Work Act 1974. Public Health Act. Heatwave Plan for England. Long term planning for local authorities, CCG's and NHS. Climate Change Adaption Strategy for London. Heat Health Watch. Department of Health Heatwave Plan for England. 	May 2023 May 2025 UKHSA
R85	Natural Hazards	Poor Air Quality	3	3	<ul style="list-style-type: none"> Air Quality Standards Regulations 2010 	May 2023 May 2025

		A 30-day period of elevated levels of either ozone or PM2.5 causing increases in death rates among vulnerable populations due to poor air exacerbating respiratory and cardio-vascular conditions.	High		<ul style="list-style-type: none">European directive on ambient air quality and cleaner air for Europe (2008/50/EC)The UK Air Quality StrategyEnvironmental Permitting Regulations 2010Clean Air Act & Environmental Protection ActLocal authority air quality management areas and action plans- London Mayor's Air Quality Strategy which encompasses Ultra Low Emissions Zones and Low Emission NeighbourhoodsAirTEXT warning systemLocal Air Quality Action PlansLocal Air Quality Monitoring NetworkGLA Air Quality Action Plan	EA
R84	Natural Hazards	Severe Drought Following three consecutive and unprecedented dry winters London is in a severe drought (level 4) situation. Emergency drought orders are in place with millions of properties with severe water supply restrictions and low water pressure (impacting supply to properties at high levels and tower blocks). Increase of illnesses due to reduced use of water impacting on hygiene levels, increased casualties and potentially fatalities. Mental wellbeing impacts communities and public outrage leads to some disorder issues. <i>(Environment Agency)</i>	2	5	Very High <ul style="list-style-type: none">Water Resources Act 1991.DEFRA: Planning for Major Water and Wastewater Incidents in England and Wales.Drought Plan direction document.	May 2023 May 2025 EA
Threats						
T1	Threats	Attacks on PALs PALs remain an attractive target for a terrorist attack. PALs by their nature are easily accessible and offer the prospect for an impact beyond the loss of life alone. Attacks are often (but not always) carried out without prior warning.	5	4	Very High <ul style="list-style-type: none">Work of counter terrorism security advisors to raise awareness and provide training.Physical security measures where appropriate.Emergency services response plans.Emergency services specialist resources.Counter terrorism liaison with relevant organizations.	Aug 2021 Aug 2023 MPS
T2	Threats	Attacks on infrastructure	3	3		Aug 2021 Aug 2023

		Many of the impacts which could result from industrial accidents, technical failure or severe weather could also result from a terrorist attack on infrastructure. The risk and impact vary according to the criticality of the infrastructure assets affected.	High		<ul style="list-style-type: none"> Business continuity plans for loss of essential services helps minimise disruption. Well established programme of work to protect infrastructure from terrorism including protective security advice from Centre for the Protection of National Infrastructure and local Police services. Counter terrorism liaison with relevant organizations. 	MPS
T3	Threats	Attacks on transport system Conventional attacks on transport systems are judged to be the more likely (however the likelihood of them affecting any one individual is still extremely low).	4	3	<ul style="list-style-type: none"> Regulation and security processes of individual public transport sectors. Contingency plans developed by operators in conjunction with responders. Counter terrorism liaison with relevant organizations. 	Aug 2021 Aug 2023 MPS
T5	Threats	Small Scale Unconventional Attacks Mass impact terrorist attacks, whilst unlikely, cannot be ruled out. The likelihood of terrorists successfully undertaking an attack against a nuclear or chemical facility or obtaining chemical, biological, radiological (CBR) or nuclear materials remains low, but not negligible. If such attacks were successful, their potential impact on the UK would be severe and significantly greater than a conventional attack. The potential impacts of an incident involving CBR agents will depend on a range of factors including type and quantity of CBRN materials used. This could range from small-scale (assassination or poisoning) to mass-impact (widespread dispersion and contamination) which is reflected in the scores.	4	2	<ul style="list-style-type: none"> Well-developed specialist response capability. Access to medical-countermeasures. 	Dec 2019 Dec 2021 MPS
T7	Threats	Catastrophic Unconventional Attack As X4.	4	4		
R43	Threats	Undermining Democratic Activity A cyber-attack conducted by a hostile state actor on a UK Electoral system during an election period. The attack could cause disruption to the electoral processes, resulting in data loss or manipulation and impact the result, or public confidence in the result.	3	1	<ul style="list-style-type: none"> UK Electoral processes largely not reliant on computer systems vulnerable to this type of attack 	May 2023 May 2025 Local Authority
T4	Threats	Cyber Security (Infrastructure)	2	3	<ul style="list-style-type: none"> National Cyber Security Programme. 	Dec 2019 Dec 2021

		Increasing reliance on cyber space brings new opportunities and new threats. The very openness of the networks presents a vulnerability of compromise or damage to networks from the actions of hackers, criminals or foreign intelligence services. While terrorists can be expected to continue to favour high-profile physical attacks, the possibility that they might also use cyber space to facilitate or mount an attack is growing.	Medium		<ul style="list-style-type: none">Additional outreach to businesses and public regarding cyber threats and security.National Cyber Crime Unit.Centre for Protection of National Infrastructure providing security advice.	MPS
5 Local Risks						
WL 1	Local Risks	Fire involving acetylene cylinders Fire in industrial/commercial unit, with oxyacetylene cylinders involved. Evacuation of 200m perimeter for up to 24 hours. Up to 3 fatalities, 20 casualties. <i>(London Fire Brigade)</i>	1	3	<ul style="list-style-type: none">Specialist firefighting equipment and resources.Fire protection systems to prevent or limit the spread of fire.	May 2023 May 2025 LFB
			Medium			
WL 2	Local Risks	Misuse and release of toxic or corrosive chemicals Release of toxic or corrosive substances, either intentionally as a means of chemical suicide or acid attack, or through the accidental mixture of noxious chemicals. Potential for substances to spread and harm further persons in the immediate vicinity, possibly resulting in death or serious incapacitation requiring hospital treatment. Victims and premises will require decontamination. <i>(London Fire Brigade)</i>	1	1	<ul style="list-style-type: none">Specialist Emergency Services and other responder equipment and resources.	May 2023 May 2025 LFB
			Low			
WL 3	Local Risks	Fire in buildings containing asbestos Air borne asbestos particles present in the smoke plume and ash following a fire at premises known to contain asbestos. <i>(London Fire Brigade)</i>	2	3	<ul style="list-style-type: none">Control of Asbestos Regulations 2012.Specialist firefighting equipment and resources.	May 2023 May 2025 LFB
			Medium			
WL 4	Local Risks	Loss of mortuary provision Loss or reduced capacity in public mortuary provision. <i>(WBC)</i>	5	4	<ul style="list-style-type: none">Planning for emergencies in the capital London City Hall	
			Very High			

Risk omitted from London Risk Register

Ref ID	Risk Sub-Category	Rationale for Not Applicable Status	Risk Sub-Category
R77	Gas Supply Infrastructure (Installations)	No sites in Borough	Accident
L71a	Large aircraft incident in proximity to airport	No sites in Borough	Accident
L71b	Small aircraft incident in proximity to airport	No sites in Borough	Accident

Appendix 1 - The 6 Stage Risk Assessment Process

1. Contextualisation

This is provided at the beginning of the document and summarises a range of factors which influence the assessment of both likelihood and impact of risks in Wandsworth.

2. Hazard Identification and allocation for assessment

Using London-risk as their basis, Richmond & Wandsworth Borough Resilience Forum identifies the threats and hazards that could give rise to an emergency within Wandsworth in the next 5 years.

3. Risk analysis

Drawing on guidance from Government, other research and local knowledge, the lead assessor from the Borough Resilience Forum considers the likelihood of the risk over the next five-year period.

4. Risk evaluation

The analysis is ratified by the Forum and collated in the Borough Risk Register.

5. Risk treatment

Gaps in capability, compared to the Reasonable Worst Case Scenario risks are assessed periodically by the Borough Resilience Forum. Options for additional risk management are developed.

6. Monitoring and Review

Risk assessment is not a static process and is subject to constant review. At a minimum, each risk should be formally reviewed on a 2 year cycle alongside an annual update and re-publication of the Borough Risk Register.

Appendix 2 – Likelihood and Impact Scoring Scales – qualitative measures as stated in the London Risk Register

Likelihood scoring scale

Level	Descriptor	Likelihood Over 5 Years	Likelihood Over 5 Years
1	Low	> 0.005%	> 1 in 20,000 chance
2	Medium Low	> 0.05%	> 1 in 2,000 chance
3	Medium	> 0.5%	> 1 in 200 chance
4	Medium High	> 5%	> 1 in 20 chance
5	High	> 50%	> 1 in 2 chance

Note:

Strictly, levels 1 and 2 of the impact scale are likely to fall below the threshold for an emergency. Consequently, there may be no statutory requirement to plan for events that score 1 or 2 on the impact scale. This scale recognises that, to demonstrate a thorough analysis, Category 1 responders will wish to include in their risk assessment certain risks with impacts at these levels.

Further detail on the scoring measures is provided in Annex 4D of “Emergency Preparedness” (HM Government, 2005)

Impact Categories

Category	Explanation
Human Welfare	Includes numbers of fatalities and casualties resulting from the RWCS, needs for mass evacuation, and short- and long-term accommodation.
Behavioral Impacts	Psychological impacts of the risk, including how people’s perception and behavior might change because of the risk.
Economic	An approximate net economic cost, including both direct (e.g. loss of goods, buildings, infrastructure) and indirect (e.g. loss of business, increased demand for public services) costs
Environment	Encompassing contamination or pollution of land, water or air with harmful biological / chemical / radioactive matter or oil, flooding, or disruption or destruction of plant or animal life.
Essential Services	How the RWCs might impact the emergency services, critical infrastructure, transport, education and other service and infrastructure providers
Security	Includes impacts to law enforcement and intelligence services, and disruptions to criminal justice and boarder security

Appendix 3 – Risk Rating Definitions – qualitative measures as stated in the London Risk Register

Definitions of Nationally Approved Risk Ratings

Very high (VH) risk	These are classed as primary or critical risks requiring immediate attention. They may have a high or low likelihood of occurrence, but their potential consequences are such that they must be treated as a high priority. This may mean that strategies should be developed to reduce or eliminate the risks, but also that mitigation in the form of (multi-agency) planning, exercising and training for these hazards should be put in place and the risk monitored on a regular frequency. Consideration should be given to planning being specific to the risk rather than generic.
High (H) risk	These risks are classed as significant. They may have a high or low likelihood of occurrence, but their potential consequences are sufficiently serious to warrant appropriate consideration after those risks classed as 'very high'. Consideration should be given to the development of strategies to reduce or eliminate the risks, but also that mitigation in the form of at least (multi-agency) generic planning, exercising and training should be put in place and monitored on a regular frequency.
Medium (M) risk	These risks are less significant, but may cause upset and inconvenience in the short term. These risks should be monitored to ensure that they are being appropriately managed and consideration given to their being managed under generic emergency planning arrangements.
Low (L) risk	These risks are both unlikely to occur and not significant in their impact. They should be managed using normal or generic planning arrangements and require minimal monitoring and control unless subsequent risk assessments show a substantial change, prompting a move to another risk category.

Based on the model risk rating matrix published in Annex 4F of "Emergency Preparedness" (HM Government, 2005)