



# Planning for Emergencies

**MERSEYSIDE RESILIENCE FORUM**

Merseyside Community Risk Register  
2016

## INTRODUCTION

### What is the Community Risk Register ?

The Community Risk Register (CRR) has been compiled by the Merseyside Resilience Forum (MRF), to identify potential risks that may affect the communities of Merseyside. The MRF is a collaboration of multi agency services / partners working together to prepare for emergencies on Merseyside, including:

- British Transport Police (BTP)
- Clinical Commissioning Groups
- Environment Agency (EA)
- Health & Safety Executive (HSE)
- Highways England
- Knowsley Metropolitan Borough Council
- Liverpool City Council
- Liverpool John Lennon Airport
- Maritime and Coastguard Agency (MCA)
- Merseyside Fire & Rescue Service (MFRS)
- Merseyside Police
- Merseytravel
- Mersey Tunnels Police
- NHS England
- National Grid (Gas)
- North West Ambulance Service (NWAS)
- Port of Liverpool Police
- Public Health England
- Sefton Metropolitan Borough Council
- SP Energy Networks
- St Helens Metropolitan Borough Council
- Wirral Metropolitan Borough Council
- United Utilities

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The CRR provides the basis for the responder agencies to develop emergency plans and provides a guide for the preparedness work carried out by the MRF. The CRR is also intended to inform the public - individuals, families and businesses - of the range of potential disruptive events that these agencies have considered when making their plans, and to provide assurance that they are ready to deal with these emergencies to provide resilience for the communities that they serve.

### **How has the Community Risk Register Been Compiled ?**

The Government assesses hazards and threats that could affect the United Kingdom. These are published in the National Risk Register. It explains the likelihood of a risk occurring and, if it happens, the effects it may have.

Under the Civil Contingencies Act 2004 (CCA) all areas of the United Kingdom are required to establish a local resilience forum within the local Police Force area. The CCA places a legal duty on local emergency responders to carry out assessments on the risks to their area and publish them.

The register contains the areas of potential risk to the population and infrastructure of Merseyside and the nature of that risk. The likelihood of an event occurring has been assessed using historical evidence and projected occurrence data relating to the risk occurring over a five year period at the magnitude reflected within the outcome description. The potential impact of such an emergency has been assessed with regard to health, social, economic and environmental effects in accordance with national guidance.

The inclusion of these hazards, or the particular scenario (i.e. outcome description) does not mean that the Merseyside Resilience Forum (MRF) believes the risk will materialise, or that if it were to do so, it would be at that scale. The risk scenarios are considered to be reasonable worst case assumptions upon which our risk assessment is based. The likelihood and impact assessments have been used to develop a Risk Rating of Low, Medium, High or Very High by using the Risk Matrix within this document.

The attached risk assessments only cover non-malicious events (i.e. hazards) rather than threats (i.e. terrorist incidents). This does not mean that we are not considering threats within our risk assessment work, but given the sensitivity of the information supporting these risk assessments and the potential for use by adversaries, specific details will not be made available via this document. Threat scenarios that are being considered include, for example Conventional attacks using explosives, Chemical/Biological/Radiological attacks, Electronic attacks i.e. affecting utilities and communications.

### **Lead Responsibility**

For the purpose of clarity, the Lead Responsibility refers to the organisation responsible for compiling the specific entry into the CRR. This does not necessarily denote responsibility for enacting risk treatment or for lead response in case of an incident.

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To view the National Risk Register of Civil Emergencies please visit the Government website via the link below:

[National Risk Register for Civil Emergencies](#)

To view the Cabinet Office Guidance for Emergency Preparedness and Emergency Response & Recovery please visit the Government website via the links below:

[Emergency Preparedness](#)

[Emergency Response & Recovery](#)

Further information is also available on the Merseyside Prepared website via the links below:

[www.merseysideprepared.org.uk](http://www.merseysideprepared.org.uk)

If you have any further queries please contact:

Secretary to Merseyside Resilience Forum  
Merseyside Fire & Rescue Service  
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Bridle Road  
Bootle  
Merseyside  
L30 4YD

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## HOW TO USE THE RISK REGISTER

### Explanation of the Columns

H requires national and local response. HL local picture of a national H risk. L specific risk to an area.

The likelihood of a risk occurring over a five year period, where 1=Low and 5=High

The impact if the risk should occur, where 1=Limited and 5=Catastrophic

Combination of the scores for likelihood and impact, provides 4 possible outcomes from Low to Very High

Risk Ref	Hazard or Threat Sub Category	Outcome Descriptor	Likelihood	Impact	Risk Rating	Controls Currently in Place	Lead Responsibility

Definition of the hazard

Consequences or significance of the event e.g what facilities are affected or extent of contamination

Plans, procedures and guidance in place to minimise likelihood and impact of risk

Local lead responsibility for completing the risk assessment

**RISK INDEX****MAJOR INDUSTRIAL ACCIDENTS & INDUSTRIAL ACCIDENTS****Risk Ref    Hazard**

H1	Fire or explosion at a gas LPG (Liquefied Petroleum Gas) flammable gas storage site
HL26	Localised fire or explosion at an onshore ethylene gas pipeline
HL27	Localised fire or explosion at an oil refinery
HL7	Industrial explosions and major fires
H4	Fire or explosion at a fuel distribution site or a site storing flammable and/or toxic liquids in atmospheric pressure storage tanks
H5	Fire or explosion at an onshore fuel pipeline
H6	Fire or explosion on an offshore oil / gas installation
H7	Explosion at a high pressure gas pipeline
H9	Large toxic chemical release
H11	Accidental exposure to radioactive material from incorrectly handled stolen sources
H12	Biological substance release from facility where pathogens are handled deliberately (e.g. pathogen release from containment laboratory)
H14	Major contamination incident with widespread implications for the food chain arising from: an industrial accident affecting food production areas contamination of animal feed incidents arising from production processes
H15	Maritime Pollution
HL4	Major pollution of surface waters and groundwater
H38	Technical failure of a critical upstream oil/gas facility, gas import pipeline terminal, or Liquefied Natural Gas (LNG) import reception facility leading to a disruption in upstream oil and gas production
H39	Failure of water infrastructure or loss of drinking water
H40	Disruption or loss of telecommunication systems
H41	Total failure of GB's National Electricity Transmission Network as a result of severe weather conditions and technical failure
H45	Disruption to Regional Electricity Distribution or Transmission Network / System
H46	Biological substance release during an unrelated work activity or industrial process (e.g. Legionella release due to improperly maintained building environmental control systems)

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H61	Industrial accident during remedial work on a legacy pond or silo facility at a civil nuclear installation holding large quantities of fissile material and radioactive waste
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## MAJOR TRANSPORT ACCIDENTS & TRANSPORT ACCIDENTS

### Risk Ref      Hazard

HL34	Fire, flooding, stranding or collision involving a passenger vessel in or close to UK waters leading to the ship's evacuation or partial evacuation at sea
HL8	Fire, flooding, stranding or collision involving a passenger vessel in or close to UK waters or on inland waterways, leading to the ship's evacuation.
HL37	Release of significant quantities of hazardous chemicals/materials as a result of major shipping accident
H16	Aviation accident over a semi-urban area
HL9	Aviation accident
HL10	Local accident on motorways and major trunk roads
HL11	Railway Accident
H60	Road or rail tanker containing dangerous goods and / or 'high consequence' dangerous goods - accident involving fire and explosion
HL13	Maritime accident or deliberate blockade resulting in blockage of access to key port, estuary, maritime route for more than one month
HL14	Local (road) accident involving transport of fuel/explosives

## NATURAL HAZARDS

### Risk Ref Hazard

H17	Storms and Gales
H18	Low Temperatures and Heavy Snow
H48	Heat Wave
H50	Drought
H19	Flooding: Major coastal and tidal flooding affecting parts of more than two UK regions
HL16	Local coastal / tidal flooding (affecting more than one Region)
HL17	Local coastal / tidal flooding (in one Region)
H21	Flooding: Severe fluvial flooding affecting more than two UK regions
HL18	Local / Urban flooding (fluvial or surface run-off)
HL19	Local fluvial flooding
HL33	Forest or moorland fire
H54	Disruption to aviation as a consequence of volcanic ash
H55	Severe effusive (gas rich) volcanic eruption overseas
H56	Severe space weather

## STRUCTURAL

### Risk Ref Hazard

HL21	Land movement (i.e. caused by tremors or landslides)
HL22	Building Collapse
HL23	Bridge Closure or Collapse
H44	Major reservoir dam failure/collapse



## HUMAN HEALTH

### Risk Ref Hazard

H23	Influenza type disease (pandemic)
H24	Emerging infectious diseases
HL24	Localised legionella / meningitis outbreak
H62	Health impacts of poor air quality either from high ground level ozone or fine particulate matter

## ANIMAL & PLANT HEALTH

### Risk Ref Hazard

H25	Outbreak of non-zoonotic notifiable animal diseases
H26	Outbreak of exotic notifiable disease in animals (including birds) - Zoonotic
HL43	Outbreak of plant disease (Chalara Dieback of Ash)

## DISRUPTIVE INDUSTRIAL ACTION & INDUSTRIAL ACTION

### Risk Ref Hazard

HL42	Loss of cover due to industrial action by workers providing a service critical to the preservation of life (such as emergency service workers).
H30	Emergency services: loss of emergency fire and rescue cover because of industrial action
H31	Significant or perceived significant constraint on the supply of fuel at filling stations e.g. industrial action by contract drivers for fuel, refinery staff, or effective fuel blockades at key refineries / terminals by protestors, due to the price of fuel.
H33	National strike action by prison officers

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H35	Industrial action by key Rail workers
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## PUBLIC DISORDER

### Risk Ref Hazard

H57	Large scale public disorder in multiple sites in single city occurring concurrently over several days
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## INTERNATIONAL EVENTS

### Risk Ref Hazard

H37	Influx of British Nationals who are not normally resident in the UK.
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## LOCAL RISKS

### Risk Ref Hazard

L1	Localised Maritime Pollution - Toxic or hazardous materials washed ashore
L2	Unexploded Ordnance
L3	Fire in Occupied Place of Entertainment /Sports Stadium
L4	Major Fire in Mersey Tunnel
L5	Serious RTC in Mersey Tunnel
L6	Failure of infrastructure in Mersey Tunnel (including collapse and flooding)
L7	Release of Hazardous Materials in Mersey Tunnel
L8	Local Accident Involving An Aircraft Crash Offshore
L9	Transport Incident Involving Radiological or Nuclear Materials
L10	Damage to Motorway Infrastructure
L11	Major Outbreak of Food Poisoning
L12	Sport Stadium Disorder
L13	Public Events Disorder
L14	Prison Riots
L15	Secure Hospitals

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L16	Fire / Explosion / Contamination at a waste management or recycling centre
L17	Temporary Risks - Festivals / Sporting / Leisure Events

Category	Risk Ref	Hazard or Threat	Outcome Description	Likelihood	Impact	Risk Rating	Controls Currently in Place	Lead Responsibility
Major Industrial Accident	H41	Total failure of GB's National Electricity Transmission Network as a result of severe weather conditions and technical failure	A total blackout for up to 5 days due to loss of GB's NETS. Impact on Health Services, Police, Transport, Water and Telecommunications etc.	Medium (3)	Significant (4)	VERY HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Extra Deaths Plan MRF Resilient Telecommunications Capabilities and Guidance MRF Fuel Supply Disruption Plan MRF Humanitarian Assistance CONOPS SP Energy Networks System Emergency Plan, Emergency Communication Plan, Blackstart Plan and ESEC Rota Disconnection Plan. Local Authority Major Emergency Plans Local Authority Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan Highways England Regional Control Centre Business Continuity Plan, generators, fuel stocks. NWAS Business Continuity Plan NHS England Incident Response Plan NHS Trusts Business Continuity Plans NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 National Emergency Plan for Fuel PHE Incident Response Plan PHE Business Continuity Plans	SP Energy Networks
Natural Hazards	H17	Storms and Gales	Storm force winds affecting most of a region for at least 6 hours. Most inland, lowland areas experience mean speeds in excess of 55mph with gusts in excess of 85mph. Could cause fatalities and casualties. Disruption to infrastructure including power, transport networks, homes and businesses.	Medium High (4)	Significant (4)	VERY HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Severe Weather Activation Guidance MRF MRF Large Scale Evacuation and Shelter Local Authority Major Emergency Plans Local Authority Network Management Plans Local Authority Highway Procedures Local Authority Emergency Rest Centres and Equipment Boxes Merseyside UNITY & Voluntary Agencies Plan Mutual Aid Arrangements between Local Authorities Met Office Severe Weather Warnings. Highways England – Regional Control Centre Police Plan 2 - APP Emergency Procedures SP Energy Networks System Emergency Plans NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NWAS Incident Response Plan NWAS HART Procedures NWAS Business Continuity Plans PHE Incident Response Plan PHE STAC Plan	Local Authorities (St Helens MBC)
Natural Hazards	H19	Flooding: Major coastal and tidal flooding affecting parts of more than two UK regions	High tides and major sea surge, resulting from gale force winds and heavy rainfall. Many coastal regions and tidal reaches of rivers affected by overtopping or failure (breach) of coastal and/or estuary defences, plus consequential „back up“ of drainage. Inundation from breaches in defences would be rapid and dynamic with minimal warning and no time to evacuate. Inundation from overtopping of defences would allow as little as 4 hours to evacuate. Widespread structural damage. Flooding of up to 360,000 properties (homes and businesses), housing up to 506,000 people, for up to 14 days. People stranded over a large area. Up to 2,000 'missing' persons. Could cause fatalities and casualties, including those whose death, illness or injury is an indirect consequence of flooding. Up to 400,000 evacuees, with 130,000 requiring assistance with evacuation. People would be in need of rescue, or assistance in-situ, over a 36 hour period.	Medium (3)	Significant (4)	VERY HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Multi Agency Response to a Flooding Event MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Environment Agency Local Flood Warning Plan for Merseyside. Environment Agency Regional Programme of Flooding Exercises Local Authority Major Emergency Plans Local Authority Flood Management Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Flooding SP Energy Networks NMC (South) Flood Response Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NWAS Major Incident Response Plan NWAS Business Continuity Plans PHE Incident Response Plan PHE STAC Plan PHE Business Continuity Plans	Environment Agency
Natural Hazards	HL16	Local coastal / tidal flooding (affecting more than one Region)	Sea surge, spring tides, gale force winds and/or heavy rainfall affecting more than one Region, some defences overtopped or failing at multiple locations. Flooding of 1000 to 10,000 properties for up to 14 days. Could cause fatalities and casualties and up to 200 missing persons. Up to 50,000 people (including tourists) in coastal villages and towns evacuated from flooded sites. People stranded over a large area. Up to 10,000 people needing assistance with sheltering for up to 12 months. Possible large scale evacuation required. Suddenness of failure of defences would not be possible to predict. Tidal inundation would be rapid and wave impact would cause structural damage to properties. Impact on infrastructure includes: widespread disruption for 7-14 days, salt damage, road and bridge damage, debris and contaminated water supplies and pollutants from affected businesses. Rural impacts include: widespread livestock carcasses, waterborne disease. Sewage treatment works flooded. Numerous properties destroyed. Many more uninhabitable for 12 months.	Medium (3)	Significant (4)	VERY HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Multi Agency Response to a Flooding Event MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Environment Agency Local Flood Warning Plan for Merseyside. Environment Agency Regional Programme of Flooding Exercises Local Authority Flood Management Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Flooding SP Energy Networks NMC (South) Flood Response Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NWAS Major Incident Response Plan NWAS Business Continuity Plans	Environment Agency

Human Health	H23	Influenza type disease (pandemic)	Each pandemic is different and the nature of the virus and its impact cannot be known in advance. A pandemic is likely to occur in one or more waves, possibly weeks or months apart. Each wave may last between 12-15 weeks. Up to half the population could be affected. All ages may be affected, but until the virus emerges we cannot know which groups will be most at risk.	Medium High (4)	Catastrophic (5)	VERY HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Pandemic Influenza Plan MRF Merseyside Extra Deaths Plan MRF Fuel Supply Disruption Plan MRF Humanitarian Assistance CONOPS Merseyside UNITY & Voluntary Agencies Plan Annual seasonal Flu Vaccination campaign aimed at 75% uptake in people aged 65yrs and over plus people of all ages in key at risk groups such as asthmatics, diabetics and healthcare workers. Antiviral treatments as per national guidance. National Flu Pandemic Plans, international, national and local surveillance systems. National stockpile of antiviral drugs (Tamiflu), NHS Trusts Pandemic Influenza Plans NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NHS Trusts Business Continuity Plans PHE Cheshire & Merseyside Multi Agency Outbreak of Infectious Diseases Plan Knowsley Pandemic Flu Plan MFRS Business Continuity Plan for Pandemic NWS Business Continuity Plans SP Energy Networks NMC (South) Pandemic Influenza Emergency Plan Local Authority Pandemic Flu Plans Police Business Continuity Plans PHE Incident Response Plan PHE STAC Plan PHE Business Continuity Plans	Public Health England
Major Industrial Accident	H4	Fire or explosion at a fuel distribution site or a site storing flammable and/or toxic liquids in atmospheric pressure storage tanks	Up to 3km around site, could cause fatalities and casualties. Might be disruption to air transport in the short-term. Could have impact on health services. Closure of roads in locality for a short period of time.	Medium Low (2)	Significant (4)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Protocol for Obtaining Health Advice by Emergency Responders. Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS Individual Site Specific Plans, MFRS SOP Major Incident, MFRS SOP Mass Decontamination, MFRS SOP Hazardous Materials, MFRS SOP COMAH, MFRS COMAH Off-Site Emergency Plans & Exercise schedule. Police Plan 27 – Response to Chemical Incidents Highways England – Traffic Officer Service at Regional Control Centre and Service Provider NWS Major Incident Response Plan NWS HART Procedures United Utilities Business Continuity Plans NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 PHE Incident Response Plan PHE STAC Plan	Merseyside Fire & Rescue Service
Major Industrial Accident	H14	Major contamination incident with widespread implications for the food chain arising from: an industrial accident affecting food production areas contamination of animal feed incidents arising from production processes	There may be direct animal and consumer health effects. Could cause fatalities and casualties. There may be food production/marketing implications, depending on the scale and area affected (e.g. major shellfisheries, dairy, livestock production areas). Consumer confidence may also be affected, leading to lost markets and, where staple products (e.g. bread or milk) are affected, potential panic buying.	High (5)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Media Protocol During an Emergency MRF Large Scale Evacuation and Shelter Local Authority Animal Health Plans Regulation system for checking food chain. Food Standards Agency and Environment Agency Public Warning Plans. PHE Incident Response Plan PHE STAC Plan	Local Health Resilience Partnership (NHS)
Industrial Accident	HL4	Major pollution of surface waters and groundwater	Pollution incident leading to effect on water quality. Could impact on tourism and have a serious impact on human health.	High (5)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Large Scale Evacuation and Shelter MRF Emergency Water Distribution & Sanitation Planning Guidance Environment Agency 24 Hour 365 Day Response System in place. Environment Agency Incident Management Process in Place. Environment Agency Local Working Arrangements with Fire Services, Police, Local Authorities, Highways England, Public Health England and Health Authority. MFRS SOP Environment, MFRS Environmental Protection Unit MCA Oil Spill Response Plan Highways England – Traffic Officer Service at Regional Control Centre and Service Provider	Environment Agency
Major Industrial Accident	H39	Failure of water infrastructure or loss of drinking water.	Loss of or non-availability for drinking, of the piped water supply, for a population of up to 350,000 for more than 24 hours and up to two weeks due to an accident. Impact on domestic, industrial, commercial and agriculture premises.	Medium Low (2)	Significant (4)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Emergency Water Distribution & Sanitation Planning Guidance United Utilities Asset Management Plan, Security & Emergency Measures Direction 1998, Incident Management Procedure, Demand Monitoring Zone Plan(s), Alternative Water Supplies Procedure, Boil Water Advice Procedure, Chemical Contamination Procedure, Alternative water supply review documents for some hospitals and prisons. United Utilities in-house emergency plant including 15 Water Tankers, 400+ Arlington combo units and bottled water stocks for provision of alternative water supplies. Water Industry mutual aid and support for provision of alternative water supplies. MFRS SOP Major Incident, MFRS SOP Environmental, MFRS Service Instruction Significant Water Loss, MFRS High Volume Pump and Hose Laying Equipment. PHE Incident Response Plan PHE STAC Plan PHE Business Continuity Plans	United Utilities

Major Industrial Accident	H45	Disruption to Regional Electricity Distribution or Transmission Network / System	Total failure of the electricity network over an entire region of GB occurring during the working week and lasting for 24 hours.	Medium (3)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Resilient Telecommunications Capabilities and Guidance MRF Fuel Supply Disruption Plan MRF Humanitarian Assistance CONOPS Distribution Network Operators System Emergency Plan, Emergency Communication Plan, System Faults & Emergency Plan, Electricity Supply Emergency Code. Local Authority Major Emergency Plans Local Authority Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan Highways England Regional Control Centre Business Continuity Plan, generators, fuel stocks. NHS England Incident Response Plan NHS Trusts Business Continuity Plans NHS Trusts Major Incident Plans NWS Business Continuity Plans PHE Incident Response Plan PHE STAC Plan PHE Business Continuity Plans	SP Energy Networks
Major Transport Accident	H16	Aviation accident over a semi-urban area	Loss of a number of aircraft causing fatalities and casualties including people in the area of the incident, with debris over a semi-urban area.	Low (1)	Catastrophic (5)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Liverpool John Lennon Airport Emergency Procedures, Airport Emergency Liaison Committee, Airport Testing/Exercising regime in place. Police Plan 2 – APP Emergency Procedures, Police Plan 41 – Aircraft Accidents at Liverpool John Lennon Airport, Police Plan 42 – Aircraft Incidents Guidance to Police & Emergency Services. Local Authority Major Emergency Plans MFRS SOP Major Incident, MFRS SOP Air, MFRS SOP Water. MFRS Marine Rescue Team. NWS Major Incident Response Plan, NWS Liverpool JL Airport Response Plan. CAA, MOD and NATO flying regulations, MOD Post Crash Management Organisation NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013. PHE Incident Response Plan PHE STAC Plan	Liverpool John Lennon Airport (Fire)
Major Transport Accident	H60	Road or rail tanker containing dangerous goods and / or 'high consequence' dangerous goods - accident involving fire and explosion	Could cause fatalities and casualties. Could cause damage to property and infrastructure depending on their distance from the incident. Impacts to health and environment. Contamination could impact air, land, water, animal welfare, agriculture and waste management.	Medium Low (2)	Significant (4)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Protocol for Obtaining Health Advice by Emergency Responders Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Mass Decontamination, MFRS SOP Hazardous Materials, MFRS SOP Road, MFRS SOP Rail, MFRS DIM Vehicle. Police Force Plan No.2 – APP Emergency Procedures 35 – CHEMET Procedures, 27 – Hazardous Substances & Dangerous Chemicals in Transit. Highways England – Traffic Officer Service at Regional Control Centre and Service Provider NWS Major Incident Response Plan NWS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Acute Trusts Hazmat Self Presenters Decontamination Plans Environment Agency Hazard Manager CHEM DATA PHE Incident Response Plan PHE STAC Plan	Merseyside Fire & Rescue Service
Natural Hazard	H18	Low Temperatures and Heavy Snow	Snow falling and lying over most of the area for at least one week. After an initial fall of snow there is further snow fall on and off for at least 7 days. Most lowland areas experience some falls in excess of 10cm, a depth of snow in excess of 30cm and a period of at least 7 consecutive days with daily mean temperature below -3°C. Could cause fatalities and casualties, mainly due to slips trips and falls. There is likely to be some disruption to transport networks, businesses, power supply and water supply, and also school closures.	Medium High (4)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Severe Weather Activation Guidance MRF Merseyside Extra Deaths Plan MRF Large Scale Evacuation and Shelter Meteorological Office – Severe weather warnings, specific Highway forecasts. Environment Agency – Flood Warnings Highways England Winter Service Plan, Highways England Area 10 Severe Weather Plan, VMS Traffic Officer Service at Regional Control Centre & Service Provider, Emergency Network Diversion Routes. Local Authority Major Emergency Plans Local Authority Winter Weather Plans incl priority routes for gritting Local Authority Emergency Rest Centre Plans Local Authority highway monitoring systems Local Authority contracts in place for gritting Local Authority mutual aid arrangements Community Resilience hubs containing salt, hi-viz bibs etc. Liverpool CC Corporate Severe Weather Group Liverpool CC Civil Emergency Management Plan. Liverpool CC Corporate Business Continuity Plan Merseyside UNITY & Voluntary Agencies Plan SP Energy Networks System Emergency Plan NHS England Incident Response Plan NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NHS Cold Weather Plan for England NWS Business Continuity Plans PHE Incident Response Plan PHE STAC Plan PHE Cold Weather Plan	Local Authorities (Liverpool CC)

Natural Hazard	HL17	Local coastal / tidal flooding (in one Region)	Sea surge, high tides and/or gale force winds affecting the coastline and one Region, a defence system overtopped or failing at a single location. Localised impact with infrastructure affected and up to 1000 properties flooded for up to 14 days. Could cause fatalities and casualties and up to 100 missing persons. Up to 20,000 people (including tourists) in coastal villages and towns evacuated from flooded sites. People stranded over a large area and up to 2,000 people in need of rescue. Up to 3,000 people needing assistance with sheltering for up to 12 months. Some local evacuation and cordoning off of affected areas. Tidal inundation would be rapid and wave impact would cause structural damage to properties. Impact on infrastructure includes: localised disruption for up to 7 days, salt damage, road damage, debris and contaminated local water supplies and pollutants from affected businesses. Rural impacts include: livestock carcasses, waterborne disease. Some properties destroyed and others uninhabitable for 12 months.	Medium (3)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Multi Agency Response to a Flooding Event MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Environment Agency Local Flood Warning Plan for Merseyside. Environment Agency Regional Programme of Flooding Incident Exercises. Local Authority Major Emergency Plans Local Authority Flood Management Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Flooding SP Energy Networks NMC (South) Flood Response Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NWS Major Incident Response Plan NWS Business Continuity Plans	Environment Agency
Natural Hazard	H21	Flooding: Severe fluvial flooding affecting more than two UK regions	Flooding following a sustained period of heavy rainfall extending over two weeks (perhaps combined with snow melt and surface water flooding). The event would include major fluvial flooding affecting a large, single urban area. Closure of primary transport routes. Infrastructure failure. Loss of essential services (gas, electricity & telecoms) to 250,000 homes and business for up to 14 days. Disruption to water supplies. Across urban and rural areas (more likely in urban areas) flooding of up to 50,000 properties (homes and businesses) for up to 10 days. Could cause fatalities and casualties and 20 missing persons ("missing" means: not accounted for during the first 48 hours, before Police can reunite with family or friends). People needing assistance with evacuation, rescue or assistance in-situ	Medium (3)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Multi Agency Response to a Flooding Event MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Environment Agency Local Flood Warning Plan for Merseyside Environment Agency Regional Programme of Flooding Exercises Local Authority Major Emergency Plans Local Authority Flood Management Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Flooding SP Energy Networks NMC (South) Flood Response Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NWS Major Incident Response Plan NWS Business Continuity Plans PHE Incident Response Plan PHE STAC Plan PHE Business Continuity Plans	Environment Agency
Natural Hazard	HL18	Local / Urban flooding (fluvial or surface run-off)	A sustained period of heavy rainfall extending over two weeks, perhaps combined with snow melt, resulting in flash flooding and steadily rising river levels across entire counties and could threaten a large urban town. Localised flooding of 1000 to 10,000 properties for 2-7 days. Could cause fatalities and casualties. Up to 15,000 people evacuated. Up to 500 people stranded over a large area and in need of rescue. There would be major impact on road and rail links. Impact on infrastructure includes: some buildings collapse, water damage, road and bridge damage. Contamination of water supplies. Loss of essential services (gas, electricity & telecoms) to 20,000 homes for up to 14 days. Widespread disruption for 7-14 days, significant debris and pollutants from affected businesses. Up to 1,000 people needing assistance with sheltering for up to 12 months. Rural impacts include: widespread livestock carcasses, waterborne disease. Sewage treatment works flooded. Properties destroyed and many more uninhabitable. People needing assistance with sheltering for up to 12mths.	Medium (3)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Multi Agency Response to a Flooding Event MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Environment Agency Local Flood Warning Plan for Merseyside Environment Agency Regional Programme of Flooding Exercises Local Authority Major Emergency Plans Local Authority Flood Management Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Flooding SP Energy Networks NMC (South) Flood Response Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NWS Major Incident Response Plan NWS Business Continuity Plans	Environment Agency
Natural Hazard	HL19	Local fluvial flooding	A sustained period of heavy rainfall extending over two weeks, perhaps combined with snow melt, resulting in flash flooding and steadily rising river levels within a region. Localised flooding of 100 to 1,000 properties for 2-7 days. Could cause fatalities and casualties. Up to 5,000 people evacuated. Up to 200 people stranded over a large area and in need of rescue. There would be some impact on minor roads and some A roads and truck roads impassable for a time. Some main rail lines may need to be closed for a week (for repairs etc). Most water ways would be closed to traffic because of strong currents and high water levels. Impact on infrastructure includes, water damage, road and bridge damage. Sediment movement and contamination of local water supplies. Localised loss of essential services (gas, electricity & telecoms) to 5,000 for up to 14 days. People needing assistance with sheltering for up to 12 months. Substantial disruption within a county for 7-14 days. Significant debris and pollutants clear-up needed.	Medium (3)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Multi Agency Response to a Flooding Event MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Environment Agency Local Flood Warning Plan for Merseyside Environment Agency Regional Programme of Flooding Exercises Local Authority Major Emergency Plans Local Authority Flood Management Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Flooding SP Energy Networks NMC (South) Flood Response Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NWS Major Incident Response Plan NWS Business Continuity Plans	Environment Agency
Natural Hazard	H56	Severe space weather	Coastal electrical sub-stations serving approximately 100,000 customers each are severely damaged and unable to supply electricity for two or more months. Consumers in these areas would experience an initial loss of supply, for up to half this period (i.e. for one month or more), until the local Distribution Network Operators and National Grid could arrange for alternative supplies such as interconnection to other substations, or deployment of mobile electricity generation. It is likely that rota-disconnections would be used in the affected areas for the rest of the period until the substation repairs were completed. Disruptions to satellite services for several days, including interruptions and degradations of GPS. This could result in casualties and fatalities.	Medium High (4)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Resilient Telecommunications Capabilities & Guidance National Grid constantly monitors space weather conditions. National Grid modern transformers are designed to withstand geomagnetic currents. National Grid Contingency plans for space weather. Electricity Supply Emergency Code NWS Business Continuity Plans Met Office Space Weather Forecasting PHE Incident Response Plan PHE STAC Plan	SP Energy Networks

Human Health	H24	Emerging infectious diseases	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 hospital setting. Short term disruption to local hospital intensive care facilities Possible delays to non urgent procedures. Public concern about travel, within and beyond the UK and possible international travel restriction advice.	Medium (3)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Pandemic Influenza Plan MRF Merseyside Extra Deaths Plan International, national and local surveillance systems, Infection Control Plans, Business Continuity Plans NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NHS Trusts Business Continuity Plans NHS England Community Outbreak Response Plan Police Business Continuity Plans NWAS Business Continuity Plans PHE Incident Response Plan PHE Business Continuity Plans PHE Cheshire and Merseyside Outbreak of Infectious Diseases Plan	Public Health England
Human Health	H62	Health impacts of poor air quality either from high ground level ozone or fine particulate matter	Prolonged episode of up to 20 days mainly affecting the elderly and people with existing illnesses. Could cause fatalities and increased hospital admissions.	Medium High (4)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Merseyside Excess Deaths Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Protocol for Obtaining Health Advice by Emergency Responders Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NWAS Major Incident Response Plan NWAS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 PHE Incident Response Plan PHE STAC Plan	Public Health England
Animal Health	H26	Outbreak of exotic notifiable disease in animals (including birds) - Zoonotic	Need to cull and dispose of up to poultry across Great Britain. Loss of disease free status resulting in EU and third Country import bans on poultry and captive birds and poultry products. Disruption to rural communities, local economies, tourism and the environment. Economic impacts for a major outbreak.	Medium (3)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Pandemic Influenza Plan MRF Merseyside Extra Deaths Plan PHE Major Outbreak Plan PHE Incident Response Plan PHE Infection Control Plans Public information systems Forensic information collection International National and Local surveillance Systems Regional Animal Diseases Group, Water filtration, animal controls, regulations on farm visits, environmental health regulations and control measures. Local Authority Rabies Plan Local Authority Animal Health Plans NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NHS Trusts Business Continuity Plans DEFRA National Contingency Plan	Public Health England
Disruptive Industrial Action	H31	Significant or perceived significant constraint on the supply of fuel at filling stations e.g. industrial action by contract drivers for fuel, refinery staff, or effective fuel blockades at key refineries / terminals by protestors, due to the price of fuel.	Retail filling stations, depending on the extent of the disruption and their locations, would start to run dry between 24 - 48 hours. Oil depots, for example those supplying emergency services and critical supply chains, would also face reduced deliveries, and it is likely that they would progressively begin to run short of fuel. Panic buying could exacerbate the situation. Replenishment of sites afterwards could take between 3 - 4 days, largely depending on the extent of disruption. The extent of disruption would depend on the extent to which normal deliveries of fuel to customers could be maintained.	Medium (3)	Moderate (3)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Fuel Supply Disruption Plan Police Business Continuity Plans Police Plan 1 - Force Mobilisation Plans Police Plan 11 - Operation Echo Police Plan 60 - Guidance on Emergency Protocols with Partners DECC National Emergency Plan – Fuel 2009 NWAS Fuel Plan MFRS Business Continuity Plan Fuel NHS England Incident Response Plan NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 PHE Business Continuity Plans	Merseyside Police
Local Risks	L1	Localised Maritime Pollution - Toxic or hazardous materials washed ashore	Release of oil into the sea, polluting the coastline. Significant environmental impact and potential for harm to human health	Medium Low (2)	Significant (4)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan 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. International Ship and Port Security Code- security service involvement. Memorandum of Understanding between the Environment Agency, Local Authority and Maritime and Coastguard Agency to react and remediate in case of toxic or hazardous materials washed ashore. Environment Agency staff trained on Base Controllers (Silver) and Liaison Officers. Police Plan 2 – APP Emergency Procedures. MCA National Counter Pollution Plan Peel Ports - Port of Liverpool Oil Spill Contingency Plan Peel Ports Manchester Ship Canal Oil Spill Contingency Plan Dee Conservancy Dee Estuary Oil Spill Contingency Plan ABP Garston Oil Spill Contingency Plan Stanlow Oil Spill Contingency Plan North West Standing Environment Group Plan Shoreline Pollution Response Contractors - Braemar Howells and Adler & Allan. Trained Beachmasters and Beach Supervisors.	Local Authorities (Sefton MBC & Wirral MBC)



Local Risks	L12	Public disorder Sport stadium disorder	Public events disorder resulting in injuries.	Medium Low (2)	Significant (4)	HIGH	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Police Plan 01 – Force Mobilisation Police Plan 02 – APP Emergency Procedures Police Plan 04 – Casualty Bureau Plan Police Plan 54 – Football Manual Everton FC Police Plan 55 – Football Manual Liverpool FC Police Plan 56 – Football Manual Tranmere FC Police Plan 57 – St. Helens RLFC Plan Police Plans are developed prior to each scheduled fixture Police Plan 60 - Guidance on Emergency Protocols with Partners Police Business Continuity Plans MFRS SOP Major Incident, MFRS SOP Venues, MFRS SOP Civil Disorder, MFRS Public Event Briefings. NWS Plans for Anfield and Goodison. NWS Generic Plans for St Helens and Tranmere. Local Authority Licence Conditions. Clubs have individual Emergency Manuals.	Merseyside Police
Industrial Accident	H1	Fire or explosion at a gas LPG (Liquefied Petroleum Gas) flammable gas storage site	Up to 3km around site, could cause fatalities and casualties. Could last for days. Gas shortage not expected but some disconnections of intensive users. Could cause disruption to transport services (road and rail) and health services.	Medium-Low (2)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Protocol for Obtaining Health Advice by Emergency Responders Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans. Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP LPG, MFRS Individual Site Specific Plans. Police Plan 2 – APP Emergency Procedures NWS Major Incident Response Plan. NWS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 PHE Incident Response Plan PHE STAC Plan	Merseyside Fire & Rescue Service
Industrial Accident	HL27	Localised fire or explosion at an oil refinery	Up to 1km around site, could cause fatalities and casualties.	Medium Low (2)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Protocol for Obtaining Health Advice by Emergency Responders Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan Local Authority Merseyside Shoreline Pollution Strategy Dee Estuary Oil Spill Plan MFRS Individual Site Specific Plans, MFRS SOP Major Incident, MFRS SOP Mass Decontamination, MFRS SOP COMAH, MFRS COMAH Off-Site Emergency Plans & Exercise Schedule. Police Plan 2 – APP Emergency Procedures Police Plan 27 – Response to Chemical Incidents. Highways England – Traffic Officer Service at Regional Control Centre and Service Provider NWS Major Incident Response Plan NWS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 PHE Incident Response Plan PHE STAC Plan	Merseyside Fire & Rescue Service
Industrial Accident	HL7	Industrial explosions and major fires	Up to 1km around site, could cause casualties. Explosions would cause primarily crush / cuts and bruise type injuries, as well as burns.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Large Scale Evacuation and Shelter MFRS Individual Site Specific Plans, MFRS SOP Major Incident, MFRS SOP Building Fires, MFRS SOP Hazardous Materials, Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NWS Major Incident Response Plan NWS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans PHE Incident Response Plan PHE STAC Activation Plan	Merseyside Fire & Rescue Service
Major Industrial Accident	H6	Fire or explosion on an offshore oil / gas installation	Fire and explosion, the incident would be local to site. Could cause fatalities and casualties. May impact supply. May cause environmental damage.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Large Scale Evacuation and Shelter MRF Maritime Response Guidance MCA Standard Operational procedures EPOL Plan ENI Liverpool Bay Asset Incident Management Plan PHE Incident Response Plan PHE STAC Plan	Maritime & Coastguard Agency

Major Industrial Accident	H9	Large toxic chemical release	Up to 3km from site, could cause fatalities and casualties. This risk could result in environmental contamination. There could be impacts on air, land water, animal welfare, agriculture and waste management. Could impact on demands on healthcare services. Contamination of land and certain foodstuffs.	Medium (3)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Protocol for Obtaining Health Advice by Emergency Responders Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS Individual Site Specific Plans, MFRS SOP Major Incident, MFRS SOP Mass Decontamination, MFRS SOP Hazardous Materials, MFRS SOP COMAH, MFRS COMAH Off-Site Emergency Plans & Exercise schedule, MFRS contract with Bureau Veritas. Police Plan 27 – MerPol Response to Chemical Incidents. Highways England – Traffic Officer Service at Regional Control Centre and Service Provider. United Utilities Business Continuity Plans NWS Major Incident Response Plan NWS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Acute Trust Hazmat Self Presenter Decontamination Plans PHE Incident Response Plan PHE STAC Plan	Merseyside Fire & Rescue Service
Major Industrial Accident	H11	Accidental exposure to radioactive material from incorrectly handled stolen sources	Could cause fatalities and casualties. Many worried people may present at hospitals. Radiation may be spread over several kilometres, but concentrated at the site of the incident. Could result in environmental contamination. There could be impacts on air, land, water, animal welfare, agriculture and waste management. Decontamination may be necessary.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter MRF Response Framework to a CBRN Incident Protocol for Obtaining Health Advice for Emergency Responders Local Authority Major Emergency Plans MFRS SOPs Major Incident, Hazardous Materials, CBRNE Incidents, Mass Decontamination, MFRS Individual site-specific plans and Mass Decontamination MOU Between MFRS and Acute Trusts. Police Plan 34 - NAIR Handbook NWS Major Incident Response Plan NWS HART Procedures NWS CBRNE & HAZMAT Plan PHE Incident Response Plan PHE STAC Plan PHE CRCE Recovery Handbooks for Radiation Incidents PHE Radiation Monitoring Unit Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Acute Trust Hazmat Self Presenter Decontamination Plans Government Decontamination Service RADSAFE Scheme NAIR Scheme	Public Health England
Major Industrial Accident	H12	Biological substance release from facility where pathogens are handled deliberately (e.g. pathogen release from containment laboratory)	Could cause fatalities and casualties with serious injuries.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Extra Deaths Plan MRF Merseyside Multi Agency Response to a CBRN Incident MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter MFRS SOP Major Incident, MFRS SOP Mass Decontamination, Mass Decontamination MOU Between MFRS and Acute Trusts and MFRS Individual site-specific plans. NWS Major Incident Response Plan NWS HART Procedures NWS CBRNE & HAZMAT Plan PHE Incident Response Plan PHE STAC Plan Police Plan 2 – APP Emergency Procedures Local Authority Major Emergency Plans NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Acute Trust Hazmat Self Presenter Decontamination Plans	Local Health Resilience Partnership (NHS)
Major Industrial Accident	H15	Maritime Pollution	Spillage of crude oil into the sea polluting the coastline.	Low (1)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Large Scale Evacuation and Shelter 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. International Ship and Port Security Code; security service involvement. National Contingency Plan for Marine Pollution from Ships and Offshore Installations Local Authorities Merseyside Shoreline Pollution Strategy NW Standing Environment Group PHE Incident Response Plan PHE STAC Plan	Maritime & Coastguard Agency
Major Industrial Accident	H38	Technical failure of a critical upstream oil/gas facility, gas import pipeline terminal, or Liquefied Natural Gas (LNG) import reception facility leading to a disruption in upstream oil and gas production	Catastrophic accident destroying all parts of a critical upstream facility and, in the worst case, taking months or more to restore normal levels of service. This could potentially result in a loss of gas supply to UK which could impact on power generation if demand were high. Could impact on economic, health and environmental.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS MFRS communications backup systems SP Energy Networks ESEC Rota Disconnection Plan 3 National Communications Plan if ESEC invoked NWS Major Incident Response Plan NWS HART Procedures National Ambulance Mutual Aid MOU Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans PHE Incident Response Plan PHE STAC Plan PHE Business Continuity Plans	Merseyside Fire & Rescue Service

Major Industrial Accident	H46	Biological substance release during an unrelated work activity or industrial process (e.g. Legionella release due to improperly maintained building environmental control systems)	Could cause fatalities and casualties with serious injuries.	Medium (3)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Extra Deaths Plan MRF Merseyside Multi Agency Response to a CBRN Incident MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter MFRS SOP Major Incident, MFRS SOP Mass Decontamination, Mass Decontamination MOU Between MFRS and Acute Trusts and MFRS Individual site-specific plans. NWS Major Incident Response Plan NWS HART Procedures NWS CBRNE & HAZMAT Plan PHE Incident Response Plan PHE STAC Plan Police Plan 2 – APP Emergency Procedures Local Authority Major Emergency Plans NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Acute Trust Hazmat Self Presenter Decontamination Plans	Local Health Resilience Partnership (NHS)
Major Industrial Accident	H61	Industrial accident during remedial work on a legacy pond or silo facility at a civil nuclear installation holding large quantities of fissile material and radioactive waste	Potentially large numbers of people advised to evacuate and / or shelter. Could cause fatalities and casualties	Low (1)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Merseyside Excess Deaths Plan MRF Humanitarian Assistance CONOPS MRF Response Framework to a CBRN Incident MRF Large Scale Evacuation and Shelter Protocol for Obtaining Health Advice by Emergency Responders Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans. Merseyside UNITY & Voluntary Agencies Plan Police Plan 34 - NAIR Handbook NWS Major Incident Response Plan NWS HART Procedures NWS CBRNE & HAZMAT PLAN MFRS SOPs Major Incident, Hazardous Materials, CBRNE Incidents, Mass Decontamination, MFRS Individual site-specific plans and Mass Decontamination MOU Between MFRS and Acute Trusts. NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NHS Acute Trust Hazmat Self Presenter Decontamination Plans PHE Incident Response Plan PHE STAC Activation Plan PHE CRCE Recovery Handbooks for Radiation Incidents Government Decontamination Service Facility Off-Site Plan ECOSA SCHEME NAIR Scheme	Public Health England
Transport Accident	HL34	Fire, flooding, stranding or collision involving a passenger vessel in or close to UK waters leading to the ship's evacuation or partial evacuation at sea	Could cause fatalities and casualties.	Low (1)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Maritime Response Guidance MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter 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 Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NWS Major Incident Response Plan	Maritime & Coastguard Agency
Transport Accident	HL9	Aviation accident	Could cause fatalities and casualties.	Low (1)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Maritime Response Guidance MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Liverpool John Lennon Airport Emergency Procedures, Airport Emergency Liaison Committee, Airport Testing/Exercising regime in place. Police Plan 2 – APP Emergency Procedures, Police Plan 41 – Aircraft Accidents at Liverpool John Lennon Airport, Police Plan 42 – Aircraft Incidents Guidance to Police & Emergency Services, 70 – Merseyside Maritime Rescue Plan. Local Authority Major Emergency Plans MFRS SOP Major Incident, MFRS SOP Air, MFRS SOP Water, MFRS Marine Rescue Team. NWS Major Incident Response Plan NWS Liverpool JL Airport Response Plan CAA, MOD and NATO flying regulations, MOD Post Crash Management Organisation NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013.	Liverpool John Lennon Airport (Fire)

Transport Accident	HL10	Local accident on motorways and major trunk roads	Multiple vehicle incident causing fatalities and casualties. Closure of lanes or carriageways causing major disruption and delays.	Medium High (4)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Emergency Humanitarian Assistance & Welfare on the Highway MRF Large Scale Evacuation and Shelter Merseyside Police Road Traffic Campaigns Raising Awareness of Dangerous Driving / Drink Driving Police Plan 1 – Force Mobilisation Police Plan 2 – APP Emergency Procedures Police Plan 4 – Casualty Bureau Plan Police Plan 7 - Guidance on the Mersey Tunnel Closure Plan Police Plan 60 - Guidance on Emergency Protocols with Partners Force Business Continuity Plans Highways England – Traffic Officer Service at Regional Control Centre and Service Provider, Emergency Network Diversion Routes. MFRS SOP Major Incident, MFRS SOP Road NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013. NWAS Major Incident Response Plan	Merseyside Police
Transport Accident	HL11	Railway accident	Could cause fatalities and casualties. Possible loss of freight. Major disruption to rail line including possible closure of rail tunnel.	Low (1)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter All TOC/FOCs/Network Rail are required to have a Safety Certificate agreed with the Office of Rail Regulation (ORR) before a licence to operate is granted. The Safety Certificate is renewed every 5 years ensuring that all TOC/FOCs and Network Rail have analysed and assessed the risks of their operation, determining how those risks will be controlled and where necessary improvements put into place. Each organisation has a Safety Management System to ensure that the controls are effectively and consistently applied. Network Rail Emergency Plans BTP Emergency Response Plans Merseyrail Electrics Emergency Response Guide (Issue 3 Aug 2013) Police Plan 2 – APP Emergency Procedures Police Plan 8 – Railway Plan for County of Merseyside MFRS SOP Major Incident, MFRS SOP Rail, MFRS SOP Collapsed Structures, MFRS Sub Surface SSRI Plans NWAS Major Incident Response Plan NWAS HART Procedures Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013.	British Transport Police
Natural Hazard	H48	Heat wave	Daily maximum temperatures in excess of 28°C and minimum temperatures in excess of 15°C over most of the region for around 2 weeks at least 5 consecutive days where maximum temperatures exceed 32 °C. Could cause fatalities and casualties, mainly amongst the elderly. There could be disruption to power supply and transport infrastructure.	Medium High (4)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Severe Weather Activation Guidance MRF Merseyside Extra Deaths Plan NHS England & PHE Heat Wave Plan for England NHS England Incident Response Plan NHS Trusts Heatwave Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 Public Health England / Met Office Heat Health Watch Service Meteorological Warning Systems & Public Information Systems NWAS Major Incident Plan NWAS Business Continuity Plans LHRP Adverse Weather Plan PHE Incident Response Plan	Public Health England
Natural Hazard	H50	Drought	Periodic water supply interruptions affecting businesses in London. Emergency Drought Orders in place which may impact supply in other areas of the country.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Emergency Water Distribution & Sanitation Planning Guidance Environment Agency Area Drought Contingency Plan, EA regular monitoring of reservoirs and rivers, EA orders & permits to control water abstraction, EA computer modelling to predict pressure points, EA and UU Liaison. United Utilities Drought Plan Local Authority Major Emergency Plans Local Authority Business Continuity Plans MFRS Service Instruction Water for Fire fighting NHS England Incident Response Plan NHS Trusts Business Continuity Plans PHE Incident Response Plan PHE STAC Plan PHE Business Continuity Plans	Environment Agency
Natural Hazard	HL33	Forest or moorland fire	Forest or moorland fire across up to 50 hectares. Evacuation of residential homes required. Transport may be disrupted due to smoke. Could cause fatalities and casualties.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Large Scale Evacuation and Shelter MFRS SOP Major Incident, MFRS SOP Rural Fires, MFRS High Volume Pump, Off Road Vehicles equipped with fogging units and Site Specific Operational Plans. Local Authority Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan Forest Ranger Service Plans	Merseyside Fire & Rescue Service

Natural Hazard	H54	Disruption to aviation as a consequence of volcanic ash.	Volcanic ash incursions for up to 25 days resulting in sporadic and temporary closures of significant parts of UK airspace for up to a total of 15 days during a three month eruption period. The entire UK mainland and potentially other parts of Europe could be affected for up to 10 of these days. A single period of closure within the 3 month eruptive episode may last up to 12 consecutive days, depending on meteorological conditions.	Medium High (4)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS CAA Guidance Regarding Flight Operations in the vicinity of Volcanic Activity Decisions taken by Civil Aviation Authority Airport Procedures Meteorological Office provides guidance on weather patterns and predictions regarding the ash cloud. Local Authority Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NWS Business Continuity Plans PHE Business Continuity Plans	Liverpool John Lennon Airport (Fire)
Natural Hazard	H55	Severe effusive (gas rich) volcanic eruption overseas	A severe volcanic eruption, generating large amounts of gas, aerosol and ash over a 5 month period affecting the UK and Northern Europe. The eruption could generate significant amounts of sulphur dioxide, hydrogen fluoride, sulphate aerosol (sulphuric acid) and lesser amounts of other acid aerosols, as well as very fine ash particles. Gases and aerosols in the atmosphere will be brought down to the surface throughout the UK and Northern Europe via dry deposition (termed dry fog) and wet deposition (e.g. acid rain). This could result in ground level sulphur dioxide peak 24 hour mean concentrations of up to 0.2ppm (parts per million) being sustained for several days in the UK, but hourly means could be as high as 2ppm. Published modelling work suggests that the concentration of particulate matter with diameters smaller than 2.5 microns could double in the UK for the first 3 months of the eruption, exceeding WHO guidelines for 36 days on average. These concentrations of sulphur dioxide will cause asthma attacks and worsening of the clinical condition of patients with other chronic respiratory disease. Could have an impact on health services.	Medium (3)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS CAA Guidance Regarding Flight Operations in the vicinity of Volcanic Activity Decisions taken by Civil Aviation Authority. Airport Procedures Meteorological Office provides guidance on weather patterns and predictions regarding the ash cloud. Local Authority Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NHS UK website provides volcanic ash health advice NWS Business Continuity Plans PHE Incident Response Plan PHE STAC Plan PHE Business Continuity Plans	Liverpool John Lennon Airport (Fire)
Structural	HL22	Building collapse	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. Depending on the size and construction of building, and occupation rates, there will always remain the possibility of fatalities or serious casualties.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Large Scale Evacuation and Shelter Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NWS Major Incident Response Plan NWS HART Procedures NWS Business Continuity Plans Police Plan 2 – APP Emergency Procedures. MFRS SOP Major Incident, MFRS SOP Collapsed Structures, MFRS Search & Rescue Team. NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013.	Merseyside Fire & Rescue Service
Structural	H44	Major reservoir dam failure/collapse.	Collapse 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 to properties. Several thousand other properties could be flooded. Could cause fatalities and casualties. Missing persons and people stranded. Hazardous recovery amongst collapsed infrastructure and debris. Water supply to homes and business is lost. People need temporary accommodation.	Low (1)	Significant (4)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Multi Agency Response to a Flooding Event MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Environment Agency Local Flood Warning Plan for Merseyside Environment Agency Regional Programme of Flooding Exercises Flood Maps Reservoir Undertakers Specific On-Site Plans Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Flooding NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NHS Trusts Business Continuity Plans NWS Major Incident Response Plan NWS HART Procedures NWS Business Continuity Plans PHE Incident Response Plan PHE STAC Plan	Environment Agency
Human Health	HL24	Localised legionella / meningitis outbreak	Localised outbreak of a disease which could cause approximately 500 identified cases leading to fatalities.	Medium High (4)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Pandemic Influenza Plan International, national and local surveillance systems, Infection Control Plans, Business Continuity Plans Environmental Health Regulations NHS England Community Outbreak Response Plan PHE Cheshire & Merseyside Multi Agency Outbreak Control Plan	Public Health England

Animal Health	H25	Outbreak of non-zoonotic notifiable animal diseases	Major outbreak of non-zoonotic disease such as Foot and Mouth Disease; culling of infected and susceptible animals, prohibition of livestock movements; significant economic impacts	Medium (3)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Local authority (Environmental Health) plans for: • footpath closure; • warning and informing the community; • liaison and support to regional / national authorities (e.g. AHVLA, DEFRA); • decontamination. Mutual Aid (Local Authorities 'Protocol for the provision of Mutual Aid Arrangements during a Major Incident, June 2013) National Animal Health & welfare Panel & Assoc of Chief Trading Standards Officers 'Local Authority Notifiable Exotic Animal Disease Contingency Plan Template' 2014 (Draft) plus 10 Disease Specific Annexes. DEFRA Contingency Plan for Exotic Notifiable Diseases of Animals In England, March 2014. DEFRA Disease Control Strategy for African & Classical Swine Fever in GB, August 2014. DEFRA African Horse Sickness Control Strategy For GB, December 2012. DEFRA GB Bluetongue Virus Disease Control Strategy, August 2014. DEFRA Foot and Mouth Disease Control Strategy for Great Britain – November 2011. DEFRA Notifiable Avian Disease Control Strategy for GB, January 2012 (revised July 2012). PHE Incident Response Plan PHE Rabies Plan PHE Avian Influenza Plans	Local Authorities (Knowsley MBC)
Industrial Action	HL42	Loss of cover due to industrial action by workers providing a service critical to the preservation of life (such as emergency service workers).	A number of three day strikes with significant support over a two month period affecting a single emergency service.	Medium High (4)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan NWAS REAP Plan, NWAS Business Continuity Plans, MOU between NWAS and VAS, Mutual Aid, availability of differing response models, NWAS Major Incident Response Plan MCA – support from RNLI and Fire & Rescue Service. Business Continuity arrangements; pairing of stations; national backup facility. PHE Incident Response Plan International, national and local surveillance systems. Recruitment and HR plans, Voluntary networks, aid teams available on call, full staffing levels for key areas. NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NHS Trusts Business Continuity Plans Police Business Continuity Plans	North West Ambulance Service
Public Disorder	H57	Large scale public disorder in multiple sites in single city occurring concurrently over several days	Large scale outbreaks of disorder in multiple sites concurrently, within a single city over a number of days. Disorder assumes criminal nature in urban centre (looting, rioting and wide scale criminal damage to public and private property) with satellite disorder in suburbs potentially triggered by existing community tensions.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Cabinet Office Concept of Operations Manual Police - APP Disorder Police - APP Command & Control ACPO National Mobilisation Plan Police Plan 1 - Force Mobilisation Plans Police Plan 60 - Guidance on Emergency Protocols with Partners Police Aide Memoir on Civil Unrest Police Premises Security Plan Police Business Continuity Plans MFRS SOP Major Incident, MFRS SOP Civil Disorder NWAS Major Incident Response Plan NWAS HART Procedures NWAS Business Continuity Plans PHE Business Continuity Plans	Merseyside Police
International Events	H37	Influx of British Nationals who are not normally resident in the UK.	British Nationals (BNs) not normally resident in the UK, returning to UK within a 3-4 week period following conventional war, widespread civil unrest or sustained terrorism campaign.	Medium (3)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan Mutual Aid Arrangements in place between Merseyside Local Authorities. Port Operator Emergency Plans Voluntary Services Assistance Plans NHS England Incident Response Plan NHS Trusts Major Incident Plans PHE Incident Response Plan	Local Authorities (Liverpool CC)
Local Risks	L2	Unexploded ordnance	Unexploded ordnance detonates resulting in a fatality, injury and / or damage to property.	Low (1)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Police Plan 1 – Force Mobilisation Police Plan 2 – APP Emergency Procedures Police Plan 4 – Casualty Bureau Plan Police Plan 20 – Bomb Threat & Suspect Packages Police Plan 40 – Unexploded Ordnance handed in or reported to the Police Police Plan 60 - Guidance on Emergency Protocols with Partners Police Business Continuity Plans MFRS SOP Major Incident, MFRS SOP Collapsed Structures, MFRS SOP Explosives. NWAS Major Incident Response Plan NWAS HART Procedures NWAS Business Continuity Plans National Ambulance Mutual Aid MOU PHE Incident Response Plan Local Authority Major Emergency Plans MCA plan for items below the high watermark. Highways England – Traffic Officer Service at Regional Control Centre & Service Provider. NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013.	Merseyside Police



Local Risks	L3	Fire in Occupied Place of Entertainment /Sports Stadium	Major fire could cause fatalities and casualties.	Low (1)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter MFRS SOP Major Incidents, MFRS SOP Venues, MFRS Individual Site Specific Plans. Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NWS Major Incident Response Plan. NWS HART Procedures Police Plan 2 – APP Emergency Procedures Police Plan 54 / 55 / 56 / 57 / 58 - Emergency Plans for Merseyside Sports Stadia NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013. Liverpool Arena & Convention Centre Emergency Plan	Merseyside Fire & Rescue Service
Local Risks	L4	Transport hazards Major fire in Mersey Tunnel	Could cause fatalities and casualties and people trapped or missing. Evacuation of motorists. Loss of major cross river transport link. Disruption to transport network and local economy. Possible loss of communications and utilities. Major costs of rebuilding.	Medium Low (2)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Mersey Tunnels SOP 1A & 2A Full Emergency Closure, SOP 1B & 2B Access for Emergency Vehicles During Full Closure, SOP 1C Full Planned Closure, SOP 3A & 4A Evacuation, SOP 9A & 10A Major Fire MFRS SOP Tunnels. NWS Major Incident Response Plan Police Plan 2 – APP Emergency Procedures Police Plan 7 – Mersey Tunnel Closure Plan Highways England – Traffic Officer Service at Regional Control Centre & Service Provider, plan & hard signing to use on M53 if Mersey Tunnels are closed. NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013.	Mersey Tunnels Police
Local Risks	L5	Transport hazards Serious RTC in Mersey Tunnel	Could cause fatalities and casualties and people trapped. Evacuation of motorists. Loss of major cross-river transport link. Disruption to transport network.	Medium Low (2)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Mersey Tunnels SOP 1A & 2A Full Emergency Closure, SOP 1B & 2B Access for Emergency Vehicles During Full Closure, SOP 1C Full Planned Closure, SOP 3A & 4A Evacuation, SOP 12A & 13A Serious RTC MFRS SOP Major Incident, MFRS SOP Tunnels, MFRS SOP Vehicles. NWS Major Incident Response Plan. NWS HART Procedures NWS Business Continuity Plans Police Plan 2 – APP Emergency Procedures Police Plan 7 – Mersey Tunnel Closure Plan Highways England – Traffic Officer Service at Regional Control Centre & Service Provider, plan & hard signing to use on M53 if Mersey Tunnels are closed. Liverpool City Centre Evacuation Zones NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013.	Mersey Tunnels Police
Local Risks	L10	Transport hazards Damage to motorway infrastructure	Motorway infrastructure will be damaged resulting in fatalities, injury and damage to transportation links.	Low (1)	Moderate (3)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Emergency Humanitarian Assistance & Welfare on the Highway Police Plan 1 - Force Mobilization Plan. MFRS SOP Major Incidents, MFRS SOP Road. Highways England – Contingency Plans, Traffic Officer Service at Regional Control Centre & Service provider Units, Emergency Network Diversion Routes NWS Major Incident Response Plan NWS HART Procedures NWS Business Continuity Plans	Highways England
Local Risks	L11	Human Health Major outbreak of food poisoning	Water-borne - Cryptosporidiosis Outbreak affecting 100 people and could cause fatalities  Food-borne - Salmonella Outbreak affecting 100 people and could cause fatalities	Medium (3)	Minor (2)	MEDIUM	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Water filtration, animal controls, regulations on farm visits. Environmental Health Regulations PHE Major Outbreak Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013. Police Business Continuity Plans	Local Health Resilience Partnership (NHS)
Industrial Accident	HL26	Localised fire or explosion at an onshore ethylene gas pipeline	Up to 1km around site, could causing fatalities and casualties.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS Merseyside Major Accident Hazard Pipeline Plan, MFRS SOP Major Incident, MFRS SOP Pipeline Police Plan 2 – APP Emergency Procedures, Police Plan 26 – Major Accident Hazard Pipeline Plan. NWS Major Incident Response Plan NWS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 PHE Incident Response Plan PHE STAC Plan	Merseyside Fire & Rescue Service

Major Industrial Accident	H5	Fire or explosion at an onshore fuel pipeline	Up to 1km around site, could cause fatalities and casualties.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Pipelines, MFRS Merseyside Major Accident Hazard Pipeline Plan. Police Plan 2 - APP Emergency Procedures, Police Plan 26 - Major Accident Hazard Pipeline Plan. NWAS Major Incident Response Plan NWAS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013. PHE Incident Response Plan PHE STAC Plan	Merseyside Fire & Rescue Service
Major Industrial Accident	H7	Explosion at a high pressure gas pipeline	Local to site, could cause fatalities and casualties.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Pipelines, MFRS Merseyside Major Accident Hazard Pipeline Plan National Grid Gas Emergency Response Procedures for Dealing with Gas Escapes Police Plan - APP Emergency Procedures, Police Plan 26 - Major Accident Hazard Pipeline Plan Highways England - Traffic Officer Service at Regional Control Centre and Service Provider NWAS Major Incident Response Plan NWAS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013 PHE Incident Response Plan PHE STAC Plan	Merseyside Fire & Rescue Service
Major Industrial Accident	H40	Disruption or loss of telecommunication systems	Loss of telecommunications for up to 100,000 people for up to 72 hours.	Medium Low (2)	Limited (1)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Resilient Telecommunications Capabilities & Guidance Police Plans - Emergency Contacts Directory / MTPAS Activation / Loss of British Telecom Exchange APP Doctrine detailing command and control / civil unrest / public order. MFRS communication backup systems, MFRS SOP Major Incident, MFRS SOP Mobilising & Communications. Local Authorities satellite phones as contingency United Utilities Business Continuity Plans National Emergency Alert for Telecoms. BT Restoration Plans NWAS Emergency Operations Centres Operational Procedures (virtual call centres) NWAS Business Continuity Plans NHS England Incident Response Plan NHS Trusts Business Continuity Plans Design feature within control room to minimise total loss of 999 system Regional PECS agreement to ensure 999 calls will be answered PHE Incident Response Plan PHE Business Continuity Plans	Merseyside Police
Transport Accident	HL8	Fire, flooding, stranding or collision involving a passenger vessel in or close to UK waters or on inland waterways, leading to the ship's evacuation.	Could cause fatalities and casualties.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Maritime Response Guidance MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter MCA Major Incident Plans MCA SOPs SARCO Plans 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. Police Plan 2 – APP Emergency Procedures, Police Plan 14 – Shore Based Response to a Maritime Incident Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans. NWAS Major Incident Response Plan	Maritime & Coastguard Agency
Transport Accident	HL37	Release of significant quantities of hazardous chemicals/materials as a result of major shipping accident	Fatalities and casualties unlikely. Significant environmental / ecological damage.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Large Scale Evacuation and Shelter 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. International Ship and Port Security Code- security service involvement Local Authorities Merseyside Shoreline Pollution Strategy PHE Incident Response Plan PHE STAC Activation Plan NW Standing Environment Group National Contingency Plan for Marine Pollution from Ships and Offshore Installations	Maritime & Coastguard Agency



Transport Accident	HL13	Maritime accident or deliberate blockade resulting in blockage of access to key port, estuary, maritime route for more than one month.	Loss of port is likely to have an initial wider impact, but will quickly reduce as shippers seek alternative ports or methods of shipping. Economic impact on local dependent businesses.	Low(1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Port/Harbour Authority – Pilotage, marked channels, vessel tracking system, Port/Harbour Authority Maritime Salvage SOP Harbour Authority Peel Ports Marine Safety Assessment Register Maritime & Coastguard Agency Department for Transport Maritime policing capability vessel CONSORTIUM	Port of Liverpool Police
Transport Accidents	HL14	Local (road) accident involving transport of fuel/explosives	Multiple serious casualties with the possibility of multiple fatalities within vicinity of accident/explosion, depending on the average accident rate for the local road networks in that particular area. Area could require evacuating depending on substances involved. Potential release into local environment, watercourses etc. Large quantities of fire fighting media (foam) could impact on environment. Roads and access routes impassable for a time.	Medium Low (2)	Limited (1)	LOW	MRF Merseyside Emergency Response Manual. MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Protocol for Obtaining Health Advice by Emergency Responders Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Mass Decontamination, MFRS SOP Hazardous Materials, MFRS SOP Road, MFRS SOP Environment, MFRS range of Fire Fighting Foam for Class A&B Fires. Police Plan 2 – APP Emergency Procedures Joint training/enforcement initiative between Police, F&RS, Trading Standards & Environmental Health. Highways England – Traffic Officer Service at Regional Control Centre and Service Provider, Contingency Plan, Emergency Network Diversion Routes. NWS Major Incident Response Plan NWS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Acute Trusts Hazmat Self Presenters Decontamination Plans NHS Mortuaries Daily Report & Escalation Policy 2013	Merseyside Fire & Rescue Service
Structural	HL21	Land movement (i.e. caused by tremors or landslides)	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 landslide itself and/or in collapsed structures. A number of fatalities are possible depending on the size and location of land movement, and the limitations of emergency access to injured persons.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS MRF Large Scale Evacuation and Shelter Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Wirral Council Site Clearance Contractor Arrangements Merseyside UNITY & Voluntary Agencies Plan MFRS SOP Major Incident, MFRS SOP Collapsed Structures, MFRS SOP Trench, MFRS Search & Rescue Team NWS Major Incident Response Plan NWS HART Procedures NWS Business Continuity Plans Risk Assessments have been carried out, signage and media messages warning the public of the dangers.	Local Authorities (Wirral MBC)
Structural	HL23	Bridge closure or collapse	Roads, access routes 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	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Humanitarian Assistance CONOPS Local Authority Major Emergency Plans Local Authority Network Management Plans Local Authority Transport Plans Merseyside UNITY & Voluntary Agencies Plan BTP, ACPO, Network Rail - Police Bridge Strike Protocol MFRS SOP Major Incident, MFRS SOP Collapsed Structures, MFRS Search & Rescue Team. Highways England Area 10 Contingency Plan, Traffic Officer Service at Regional Control Centre & Service Provider, Emergency Network Diversion Routes. Police Plan 2 – APP Emergency Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Mortuaries Daily Report & Escalation Policy 2013. NHS Trusts Business Continuity Plans NWS Major Incident Response Plan NWS HART Procedures NWS Business Continuity Plans	Local Authorities (Wirral MBC)
Plant Health	HL43	Outbreak of plant disease (Chalara Dieback of Ash)	Major outbreak of plant disease. Damage to native plants & ecosystems (with knock on effects to rural economy should diseases become widespread within the tree population). Controls likely to be imposed on industry with particular impact on the forestry and nursery stock sectors. An outbreak could result in controls on imports and exports.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Local Authority Risk Assessments Local Authority surveys of tree stock annually Forestry Commission guidance to householders, landowners and local authorities on the movement of infected leaves as waste - Chalara dieback of ash - management of ash leaves and saplings (Version 2.0, December 2012) DEFRA Chalara Management Plan (for England) March 2013 C. fraxinea – Dieback of ash Advisory Note, Forestry Commission 31 July 2013	Local Authorities (St Helens MBC)
Disruptive Industrial Action	H30	Emergency services: loss of emergency fire and rescue cover because of industrial action	A series of strikes by fire fighters takes place in a number of fire and rescue authorities spread over a period of two months, lasting up to 48 hours each.	High (5)	Limited (1)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MFRS Resilience Protocols in place MFRS Organisational Business Continuity Plan NWS Major Incident Response Plan NWS Business Continuity Plans PHE Business Continuity Plans	Merseyside Fire & Rescue Service

<b>Disruptive Industrial Action</b>	<b>H33</b>	National strike action by prison officers	A single unofficial strike by prison officers nationally, lasting more than 12 hours.	Medium Low (2)	Limited (1)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Police Plan - Force Mobilisation / HMP Liverpool / HMP Altcourse / HMP Kennet / Ashworth Hospital Police Business Continuity Plans APP Doctrine detailing command and control / civil unrest / public order. HM Prisons Service and G4s Plans MFRS SOP Major Incident, MFRS SOP Civil Disorder, MFRS SOP Secure Accommodation. NWS Prison Plans for HMP Liverpool, Altcourse and Kennett.	Merseyside Police
<b>Disruptive Industrial Action</b>	<b>H35</b>	Industrial action by key Rail workers	Strike action resulting in the near-total shut down of the rail network on a national scale severe disruption would last for a week as part of a 3 month campaign.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Rail industry contingency plans in place and regularly monitored. PHE Business Continuity Plans	British Transport Police
<b>Local Risks</b>	<b>L6</b>	Transport Hazards Failure of infrastructure in Mersey Tunnel (including collapse and flooding)	Could cause fatalities and casualties and people trapped or missing Evacuation of motorists. Loss of major cross river transport link. Disruption to transport network, local economy. Possible loss of communications and utilities. Major costs of rebuilding.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Mersey Tunnels SOP 1A & 2A Full Emergency Closure, SOP 1B & 2B Access for Emergency Vehicles During Full Closure, SOP 1C Full Planned Closure, SOP 3A & 4A Evacuation, SOP 16A & 17A Failure of Infrastructure. MFRS SOP Major Incident, MFRS SOP Tunnels, MFRS SOP Collapsed Structure, MFRS Service Instruction Tunnel Gas Main. NWS Major Incident Response Plan NWS HART Procedures Police Plan 1 - Force Mobilisation Police Plan 2 - APP Emergency Procedures Police Plan 7 - Mersey Tunnel Closure Plan Highways England - Traffic Officer Service at Regional Control Centre & Service Provider, plan & hard signing to use on M53 if Mersey Tunnels are closed. Liverpool City Centre Evacuation Zones NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013.	Mersey Tunnels Police
<b>Local Risks</b>	<b>L7</b>	Transport Hazards Release of hazardous materials in Mersey Tunnel	Could cause fatalities and casualties. Evacuation of motorists. Loss of major cross river transport link Disruption to transport network.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Protocol for Obtaining Health Advice by Emergency Responders Mersey Tunnels SOP 1A & 2A Full Emergency Closure, SOP 1B & 2B Access for Emergency Vehicles During Full Closure, SOP 1C Full Planned Closure, SOP 3A & 4A Evacuation, SOP 14A & 15A Release of Hazardous Material, SOP 20A Escort of Vehicles Carrying Dangerous Goods. MFRS SOP Major Incident, MFRS SOP Tunnels, MFRS SOP Hazardous Materials, MFRS SOP Mass Decontamination. NWS Major Incident Response Plan NWS HART Procedures NWS Business Continuity Plans NWS CBRNE & HAZMAT Plan Police Plan 1 - Force Mobilisation Police Plan 2 - APP Emergency Procedures Police Plan 7 - Mersey Tunnel Closure Plan Police Plan 27 - MerPol Response to Chemical Incidents Highways England - Traffic Officer Service at Regional Control Centre & Service Provider, plan & hard signing to use on M53 if Mersey Tunnels are closed. NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NHS Acute Trusts Hazmat Self Presenters Decontamination Plans	Mersey Tunnels Police
<b>Local Risks</b>	<b>L8</b>	Transport Hazards Local accident involving an aircraft crash off shore	Light aircraft causing fatalities/casualties  Medium - Large aircraft causing fatalities/casualties with environmental impact  Cargo aircraft causing fatalities/casualties with environmental impact	Low (1)  Low (1)  Low (1)	Limited (1)  Moderate (3)  Limited (1)	LOW  MEDIUM  LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Merseyside Mass Fatalities Plan MRF Maritime Response Guidance MRF Humanitarian Assistance CONOPS ARCC Plans Police Plan 2 - APP Emergency Procedures, Police Plan 41 - Aircraft Accidents at Liverpool John Lennon Airport, Police plan 42 - Aircraft Incidents Guidance to Police & Emergency Services, MFRS SOP Major Incident, MFRS SOP Air, MFRS SOP Water.	RAF

Local Risks	L9	Transport Hazards Transport incident involving radiological or nuclear materials	Could cause fatalities. People and local area may be contaminated.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Humanitarian Assistance CONOPS MRF Merseyside Recovering from Emergencies Plan MRF Large Scale Evacuation and Shelter MRF Response Framework to a CBRN Incident Protocol for Obtaining Health Advice by Emergency Responders Local Authority Major Emergency Plans MFRS SOPs Major Incidents, Hazardous Materials, CBRNE Incidents, Mass Decontamination, MFRS DIM Vehicle. NWS Major Incident Response Plan NWS HART Procedures NWS CBRNE & HAZMAT Plan NARO. Police Plan 33 - Transportation by Road of Nuclear Materials Police Plan 34 - NAIR Handbook Highways England – Traffic Officer Service at Regional Control Centre & Service Provider, Contingency Plan NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NHS Mortuaries Daily Report & Escalation Policy 2013 NHS Acute Trusts Hazmat Self Presenters Decontamination Plans PHE Incident Response Plan PHE STAC Activation Plan PHE CRCE Recovery Handbooks for Radiation Incidents Government Decontamination Service RADSAFE Scheme NAIR Scheme	Merseyside Fire & Rescue Service
Local Risks	L13	Public Disorder Public events disorder	Public events disorder resulting in damage to property and injuries.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Police Plan 01 – Force Mobilisation Police Plan 02 – APP Emergency Procedures Police Plan 04 – Casualty Bureau Plan Police Plans are developed prior to significant public safety events Police Plan 60 - Guidance on Emergency Protocols with Partners Police Business Continuity Plans MFRS SOP Major Incident, MFRS SOP Venues, MFRS SOP Civil Disorder, MFRS Public Event Briefings Local Authority Event & Contingency Plans. NHS England Incident Response Plan NHS Trusts Major Incident Plans NHS Trusts Business Continuity Plans NWS Major Incident Response Plan NWS HART Procedures Multi Agency Exercises held prior to large scale events	Merseyside Police
Local Risks	L14	Public Disorder Prison riots	Prison riots taking place which would result in damage to property and/or either fatalities or injuries	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Police Plan 1 - Force Mobilisation Plans Police Plan 2 – APP Emergency Procedures Police Plan 4 – Casualty Bureau Plan Police Plan 47 – HMP Liverpool Police Plan 48 – HMP Altcourse Police Plan 49 – HMP Kennett Police Plan 60 - Guidance on Emergency Protocols with Partners Police Business Continuity Plans HM Prison Service Contingency Plans MFRS SOP Major Incident, MFRS SOP Civil Disorder, MFRS SOP Secure Accommodation. NWS Procedures for HMP Liverpool, Altcourse & Kennet.	Merseyside Police
Local Risks	L15	Public Disorder Secure Hospitals	Disorder occurring resulting in damage to property and/or either fatalities or injuries.	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan Police Plan 1 - Force Mobilisation Plan Police Plans relating to secure establishments MFRS SOP Major Incident, MFRS SOP Secure Accommodation	Local Health Resilience Partnership (NHS)
Local Risks	L16	Fire / Explosion / Contamination at a waste management or recycling centre	Up to 5km around the site, could cause fatalities and casualties. Could affect local transport infrastructure and environmental pollution	Low (1)	Minor (2)	LOW	MRF Merseyside Emergency Response Manual. MRF Merseyside Warning & Informing Guidance MRF Merseyside Recovering from Emergencies Plan MRF Humanitarian CONOPS MRF Large Scale Evacuation and Shelter Protocol for Obtaining Health Advice by Emergency Responders Local Authority Major Emergency Plans Local Authority Emergency Rest Centre Plans Merseyside UNITY & Voluntary Agencies Plan Police Plan 2 – APP Emergency Procedures NWS Major Incident Response Plan. NWS HART Procedures NHS England Incident Response Plan NHS Trusts Major Incident Plans MFRS SOPs Fighting Fires in Refuse, Asbestos, Mass Decontamination, Sewers, Acetylene, LPG PHE Incident Response Plan PHE STAC Plan WISH Forum Reducing Fire Risk At Waste Management Sites Environment Agency Guidance on Development of Site Specific Multi Agency Contingency Plans with LRFs	Merseyside Fire & Rescue Service

Local Risks	L17	Temporary Risks Festivals / Sporting / Leisure Events	Life Risk Property Risk Environmental Risk	N/A	N/A	N/A	<p>MRF Merseyside Emergency Response Manual  MRF Merseyside Warning &amp; Informing Guidance  MRF Merseyside Recovering from Emergencies Plan  MRF Humanitarian Assistance CONOPS  Event Organisers complete the risk assessment and submit them to multi agency safety advisory groups for consideration and approval.  Local Authority Major Emergency Plans, City and Town Centre Evacuation Plans,  Merseyside UNITY &amp; Voluntary Agencies Plan  Police Plan 2 – APP Emergency Procedures  NWAS Major Incident Response Plan  NWAS On-Call and Deployment Plan  MFRS SOP Major Incident, MFRS SOP Venues.</p>	Event Organisers
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## RISK MATRIX

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Catastrophic (5)	H16			H23	
Significant (4)	H44	H4, H39, H60 L1, L12	H41, H19, HL16	H17	
Moderate (3)	H15, HL34, HL9 HL11, H61, L2 L3, L8, L10	H1, HL27, L4	H45, HL18 HL19, H24 H26, H31 HL17, H21	H18, H56, H62	H14, HL4
Minor (2)	HL26, H5, H7, HL8 HL37, HL13, HL21 HL43, HL23, H35 L6, L7, L9, L13 L14, L15, L16	HL7, H6, H11 H12, H38, H50 HL33, HL22 H57, L5	H9, H46, H55 H25, H37 L11	HL10, H54, H48 HL24, HL42	
Limited (1)	L8	H40, HL14, H33			H30
	Low (1)	Medium Low (2)	Medium (3)	Medium High (4)	High (5)

### LIKELIHOOD

