

RISK MATRIX

LIKELIHOOD	LOW	MEDIUM LOW	MEDIUM	MEDIUM HIGH	HIGH
IMPACT					
CATASTROPHIC				Health - Influenza type Pandemic.	
SIGNIFICANT	<p>Fire/explosion Fuel Distribution/Storage Site - Off site effect.</p> <p>Fire - Gas Pipeline</p> <p>Radiological Release - Nuclear Power Stn</p> <p>Fluvial flooding (Babergh) - 100+ homes.</p> <p>Railway Accident – Collision.</p> <p>Aviation accident over semi urban area.</p>	<p>Explosion Industrial Complex – Off site effect.</p> <p>Tidal flooding (Waveney) 1000+ homes.</p> <p>Tidal flooding (Suffolk Coastal) - 1000+ homes.</p> <p>Tidal flooding (Ipswich) - 1000+ homes.</p> <p>Aviation Accident.</p>		Fuel Distribution disruption.	Zoonotic disease (e.g. HPAI).
MODERATE	<p>Fire/explosion LPG terminal - Major Site.</p> <p>Fuel Distribution Leakage - Off Site effect.</p> <p>Explosion Industrial Complex - Off site effect.</p> <p>Explosion - Gas Pipeline.</p> <p>Fluvial Flooding Ipswich - 100+ homes.</p> <p>Fluvial flooding (Suffolk Coastal/Ipswich/ Forest Heath) - 100+ homes.</p> <p>Bridge Collapse.</p> <p>Dam/Reservoir Collapse.</p>	<p>Fire/explosion LPG terminal - Minor Site.</p> <p>Fire/Explosion Fuel Distribution/Storage Site - On site effect.</p> <p>Fire / Explosion Industrial Complex - On site effect.</p> <p>Drought.</p> <p>Building collapse.</p> <p>Health Emerging Infectious Disease.</p> <p>Transport - Railway Accident Fire / Explosion.</p> <p>Hazardous Goods - Single</p> <p>Fluvial Flooding (Waveney/St Eds / Mid Suffolk) - 100+ homes.</p> <p>Structural - Building collapse.</p> <p>Technical - Electricity Network failure.</p> <p>Transport accident –Fuel or Explosives.</p> <p>Maritime Pollution incident.</p>	<p>Toxic Chemical Release – Off site effect.</p> <p>Toxic Chemical Fire & explosion.</p> <p>Radiological Release - Handling/Disposal.</p> <p>Storms & Gales - Large scale power outage >48hrs.</p> <p>Tidal flooding (Suffolk Coastal / Waveney / Ipswich) - 100+ homes.</p> <p>Industrial accident -Biological Release.</p>	<p>Low temperatures & Heavy Snow.</p> <p>Heat wave.</p> <p>Health - Influenza-type Epidemic.</p> <p>Transport - Trunk road significant accident.</p> <p>Technical - Water/sewerage failure.</p>	Non-zoonotic disease (e.g. FMD, BTV).
MINOR	<p>Fire Minor Gas Terminal.</p> <p>Tidal flooding (Babergh).</p>	<p>Fuel Distribution Leakage - On Site effect.</p> <p>Fire Localised Gas Pipeline.</p> <p>Heath/Forest Fire >1km².</p> <p>Technical - Regional telecommunications failure.</p> <p>Maritime - Shipborne incidents.</p>	<p>Localised High Pressure Gas Release.</p> <p>Tidal flooding (Waveney / Ipswich) - 50+ homes.</p> <p>Legionella / meningitis outbreak.</p> <p>Technical - Regional electricity network failure.</p>	<p>Toxic Chemical Release - On-site effect.</p> <p>Food Chain Contamination</p> <p>Storms & Gales - Large scale power outage <24hrs.</p> <p>Storms & Gales - Small scale power outage >48hrs.</p> <p>Tidal flooding (Suffolk Coastal) - 50+ homes .</p> <p>Industrial Action – Emergency Workers.</p> <p>Heath/Forest Fire <1km².</p>	Technical - No notice failure telephony.
INSIGNIFICANT	Land movement				Storms & Gales - Small scale power outage <24hrs.

KEY

LIKELIHOOD

Descriptor	Likelihood over 5 years	Likelihood over 5 years
Negligible	>0,005%	>1 in 20,000 chance
Rare	>0.05%	>1 in 2,000 chance
Unlikely	>0.5%	>1 in 200 chance
Possible	>5%	>1 in 20 chance
Probable	>50%	>1 in 2 chance

Risk Rating	Definition
Very High Risk	Primary risks requiring immediate attention due to potential consequences. Risk reduction or mitigation strategies should be developed. Hazard specific multi-agency contingency plans required, exercise and training for hazards in place. Risk monitored regularly.
High Risk	Sufficiently serious to warrant appropriate consideration after Very High Risks. Consider developing risk reduction or mitigation strategies. Generic multi-agency contingency plans required, exercise and training for hazards in place. Risk monitored regularly.
Medium Risk	Less significant but may cause upset or inconvenience in the short term. Consider being managed under generic emergency planning arrangements. Risk monitored
Low Risk	Managed using normal or generic emergency planning arrangements. Minimal monitoring and control unless risk assessment changes to move to a higher rating.

IMPACT SCORING SCALE

Level	Descriptor	Categories of impact	Description of Impact
1	Insignificant	Health Social Economic Environmental	<ul style="list-style-type: none"> • Insignificant number of injuries or impact on health. • Insignificant number of persons displaced and insignificant personal support required. • Insignificant disruption to community services, including transport services and infrastructure. • Insignificant impact on local economy. • Insignificant impact on environment.
2	Minor	Health Social Economic Environmental	<ul style="list-style-type: none"> • Small number of people affected, no fatalities, and a small number of minor injuries with first aid treatment. • Minor damage to properties. • Minor displacement of a small number of people for < 24 hours and minor personal support required. • Minor localised disruption to community services or infrastructure < 24 hours. • Negligible impact on local economy and cost easily absorbed. • Minor impact on environment with no lasting effects.
3	Moderate	Health Social Economic Environmental	<ul style="list-style-type: none"> • Sufficient number of fatalities with some casualties requiring hospitalisation and medical treatment and activation of MAJAX, the automated intelligent alert notification system, procedures in one or more hospitals. • Damage that is confined to a specific location, or to a number of locations, but requires additional resources. • Localised displacement of > 100 people for 1-3 days. • Limited impact on local economy with some short-term loss of production, with possible additional clean-up costs. • Limited impact on environment with short-term or long-term effects.
4	Significant	Health Social Economic Environmental	<ul style="list-style-type: none"> • Significant number of people in affected area impacted with multiple fatalities, multiple serious or extensive injuries, significant hospitalisation and activation of MAJAX procedures across a number of hospitals. • Significant damage that requires support for local responders with external resources. • 100 to 500 people in danger and displaced for longer than 1 week. Local responders require external resources to deliver personal support. • Significant impact on and possible breakdown of some local community services. • Significant impact on local economy with medium-term loss of production. • Significant extra clean-up and recovery costs. • Significant impact effect on environment with medium- to long-term effects.
5	Catastrophic	Health Social Economic Environmental	<ul style="list-style-type: none"> • Very large numbers of people in affected area(s) impacted with significant numbers of fatalities, large number of people requiring hospitalisation with serious injuries with longer-term effects. • Extensive damage to properties and built environment in affected area requiring major demolition. • General and widespread displacement of more than 500 people for prolonged duration and extensive personal support required. • Serious damage to infrastructure causing significant disruption to, or loss of, key services for prolonged period. Community unable to function without significant support. • Serious impact on local and regional economy with some long-term, potentially permanent, loss of production with some structural change. • Extensive clean-up and recovery costs. • Serious long-term impact on environment and/or permanent damage.