



Emergency Risk Management Project

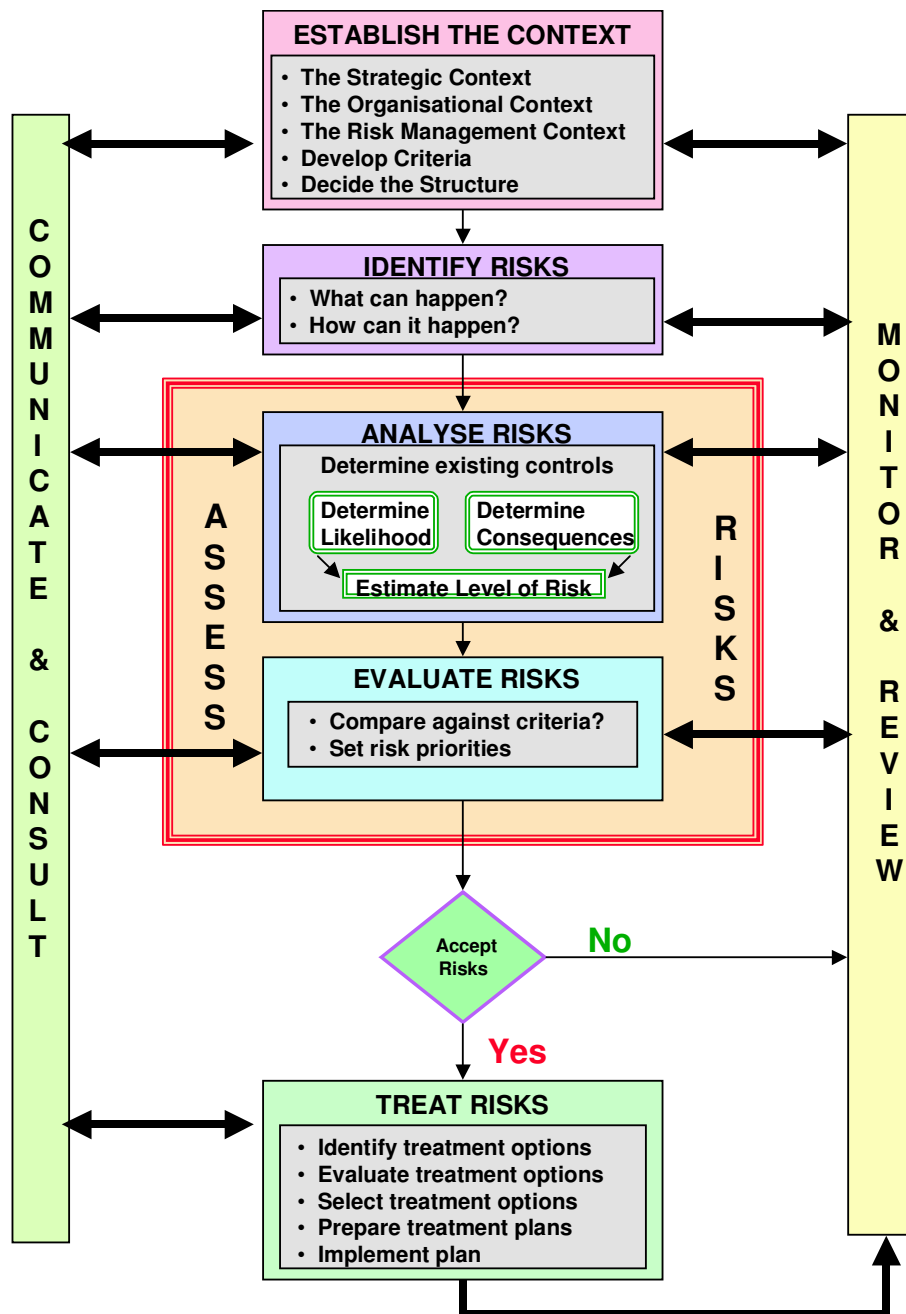
SHIRE OF BROOMEHILL-
TAMBELLUP

Shire of Broomehill - Tambellup

Executive Summary

The Broomehill – Tambellup LEMC and the community have undertaken a risk assessment of the Shire of Broomehill- Tambellup utilising emergency risk management models based on the Australian/New Zealand Standard for Risk Management 4360: 2004. The subsequent output of this process has resulted in a Risk Statement Register and a Risk Treatment Schedule

The Broomehill - Tambellup LEMC and the community will conduct a review of the risk analysis for the communities every 5 years in accordance with State Emergency Management Policy 2.5 'Emergency Management in Local Government Districts'.



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Risk Evaluation Criteria

The LEMC has developed the following risk evaluation criteria. The purpose of the risk evaluation criteria is to identify a set of principles or factors by which the risks will be evaluated. They will also be used to determine which risks will be treated in what order.

1. Any loss of life is unacceptable.
2. Any harm to people's health in preventable situations is unacceptable.
3. Any economic loss to the business community is unacceptable.
4. Any harm to the natural or cultural environment is unacceptable.
5. Any damage to the social infrastructure of the community is unacceptable.
6. Any loss of heritage is unacceptable.
7. Any damage to the lifelines within the community is unacceptable.
8. Any damage to the bio-diversity of the local government municipality is unacceptable.

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Sources of Risk

The LEMC have identified the following list as the risks the community is most likely to be faced with. The list of risks has been determined by the LEMC from the hazards identified in the WA Emergency Management legislation and policy.

Identified Hazards (Sources of Risk)

1. Air transport
2. Building collapse
3. Earthquake
4. Exotic animal disease
5. Fire - urban
6. Fire - rural
7. Fire - DEC
8. Flood
9. Hazardous materials incident
10. Human epidemic
11. Industrial accident
12. Land search & rescue
13. Cliff collapse
14. Reservoir collapse
15. Storm
16. Transport accident - rail
17. Transport accident - road
18. Transport accident – sea

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Risk Identification Matrix

	ELEMENTS AT	RISK									
SOURCES AT RISK	LIFELINES	FACILITIES	SOCIAL	LIFE	HEALTH	PSYCH	ASSETS	INCOME	ECONOMY	ENVIRON	CULTURE
TRANSPORT ACCIDENT -AIR	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO
TRANSPORT ACCIDENT -RAIL	NO	NO	NO	YES	NO	NO	NO	NO	YES	NO	NO
TRANSPORT ACCIDENT -ROAD	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO
TRANSPORT ACCIDENT -WATER	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO
BUILDING COLLAPSE	NO	NO	NO	YES	YES	YES	YES	YES	NO	NO	NO
EARTHQUAKE	YES	YES	NO	YES	YES	YES	YES	YES	NO	NO	NO
EXOTIC ANIMAL DISEASE	NO	NO	YES	NO	NO	YES	YES	YES	YES	NO	NO
FIRE – URBAN	YES	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO
FIRE – RURAL	YES	NO	NO	YES	YES	YES	YES	YES	YES	YES	NO
FIRE – CALM	YES	NO	NO	YES	YES	NO	NO	NO	NO	YES	NO
FLOOD	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO
HAZARDOUS MATERIAL INCIDENT	NO	NO	NO	YES	YES	NO	NO	NO	NO	YES	NO
HUMAN EPIDEMIC	NO	NO	NO	YES	YES	NO	NO	YES	YES	NO	NO
INDUSTRIAL ACCIDENT	YES	NO	NO	YES	YES	YES	YES	YES	YES	NO	NO
LAND SEARCH AND RESCUE	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO
CLIFF COLLAPSE	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO
RESERVIOR COLLAPSE	YES	YES	NO	YES	YES	NO	YES	NO	NO	NO	NO
STORM	YES	YES	NO	YES	YES	NO	YES	NO	NO	NO	NO

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Risk Register

RISK REGISTER (1 September 2008)	LIKLIHOOD RATING	CONSEQUENCE RATING	LEVEL OF RISK
There is a risk that a storm may cause loss of life of those in the affected area.	D - Unlikely	4 - Major	D4
There is a risk that a storm could cause damage to the community facilities within the affected area.	B - Likely		
There is a risk that a storm may cause damage to the assets of those in the affected area.	B - Likely		
There is a risk that a storm may cause loss threaten the health of those in the affected area.	D - Unlikely		
<i>Risk Statements – Urban fire</i>			
There is a risk that an urban fire could damage assets belonging to residents of the area.	C – Possible		
There is a risk that an urban fire could cause loss of life of residents or emergency service personnel.	C – Possible		
There is a risk that an urban fire could damage the psychological health of those affected by the fire.	C – Possible		
There is a risk that an urban fire could damage the health of those affected by the fire.	C - Possible		
There is a risk that an urban fire could threaten lifelines causing disruption to residents.	D - Unlikely		
<i>Risk Statements – Wild fire</i>			
There is a risk that a rural fire could damage assets belonging to residents of the area.	C - Possible		
There is a risk that a rural fire could cause loss of life of residents or emergency service personnel.	C - Possible		
There is a risk that a rural fire could cause psychological harm to the health of those affected by the fire.	C - Possible		
There is a risk that a rural fire could cause loss of income for the rural sector of the community affected by the fire.	C - Possible		
There is a risk that a rural fire could cause damage to the natural environment of the area affected by fire.	C - Possible		
There is a risk that a rural fire could damage the health of those affected by the fire.	C - Possible		
There is a risk that a rural fire could cause disruption to the business economy of the area.	D - Unlikely		
There is a risk that a rural fire could threaten lifelines causing disruption to residents of the area.	C - Possible		

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Qualitative measures of Consequence

RATING	DESCRIPTOR	DESCRIPTION
1	Insignificant	No injuries or fatalities. Small number or no people are displaced and only for short duration. Little or no personal support required (support not monetary or material). Inconsequential or no damage. Little or no disruption to community. No measurable impact on environment. Little or no financial loss.
2	Minor	Small number of injuries but no fatalities. First aid treatment required. Some displacement of people (less than 24 hours). Some personal support required. Some damage. Some disruption (less than 24 hours). Small impact on environment with no lasting effects. Some financial loss.
3	Moderate	Medical treatment required but no fatalities. Some hospitalisation. Localised displacement of people who return within 24 hours. Personal support satisfied through local arrangements. Localised damage that is rectified by routine arrangements. Normal community functioning with some inconvenience. Some impact on environment with no long-term effect or small impact on environment with long-term effect. Significant financial loss.
4	Major	Extensive injuries, significant hospitalisation, large number displaced (more than 24 hours duration). Fatalities. External resources required for personal support. Significant damage that requires external resources. Community only partially functioning, some services unavailable. Some impact on environment with long term effects. Significant financial loss - some financial assistance required.
5	Catastrophic	Large number of severe injuries. Extended and large numbers requiring hospitalisation. General and widespread displacement for extended duration. Significant fatalities. Extensive personal support. Extensive damage. Community unable to function without significant support. Significant impact on environment and/or permanent damage.

Qualitative measures of Likelihood

RATING	DESCRIPTOR	DESCRIPTION
A	Almost Certain	Is expected to occur in most circumstances; and/or high level of recorded incidents and/or strong anecdotal evidence; and/or a strong likelihood the event will recur; and/or great opportunity, reason, or means to occur; may occur once every year or more
B	Likely	Will probably occur in most circumstances; and/or regular recorded incidents and strong anecdotal evidence; and/or considerable opportunity, reason, or means to occur; may occur once every 5 years
C	Possible	Might occur at some time; and/or few, infrequent, random recorded incidents or little anecdotal evidence; and/or very few incidents in associated or comparable organisations, facilities or communities; and/or some opportunity, reason or means to occur; may occur once every 20 years
D	Unlikely	Is not expected to occur; and/or no recorded incidents or anecdotal evidence; and/or no recent incidents in associated organisations, facilities or communities; and/or little opportunity, reason or means to occur; may occur once every 100 years
E	Rare	May occur only in exceptional circumstances; may occur once every 500 or more years

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Qualitative risk analysis matrix –Level of Risk

	CONSEQUENCES				
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC
ALMOST CERTAIN	HIGH	HIGH	EXTREME	EXTREME	EXTREME
LIKELY	MODERATE	HIGH	HIGH	EXTREME	EXTREME
POSSIBLE	LOW	MODERATE	HIGH	EXTREME	EXTREME
UNLIKELY	LOW	LOW	MODERATE	HIGH	EXTREME
RARE	LOW	LOW	MODERATE	MODERATE	HIGH

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Risk Treatment Schedule

SOURCE OF RISK	TREATMENT OPTION	RESPONSIBILITY FOR IMPLEMENTATION	TIMETABLE
AIR TRANSPORT ACCIDENT	Ensure Airport Emergency Procedures Plan in place & up to date. Support ALLMS-ICS across all agencies, including inter-agency training. HMA plans in place & up to date. Recovery Plan in place & up to date.	LEMC. Relevant HMA's & LEC Shire of Broomehill-Tambellup	Ongoing – up to date
EARTHQUAKE	EARTHQUAKE Codes. Ensure resource register & contacts list is up to date.	FESA – State Emergency Service. Shire of Broomehill-Tambellup. Department of Community Development, Tambellup Police. LEMC & LEC	Ongoing – up to date
EXOTIC ANIMAL DISEASE	HMA Plan in place & up to date. Ensure resource register & contacts list is up to date. Recovery Plan in place & up to date. Evacuation Plan in place & up to date. Welfare Plan in place & up to date	Department of Agriculture. LEMC & LEC Shire of Broomehill-Tambellup. LEMC & LEC Department of Community Development & Shire of Broomehill-Tambellup.	Ongoing – up to date Ongoing – up to date Ongoing – up to date Ongoing – up to date
HAZARDOUS MATERIAL INCIDENT	Ensure HAZMAT Plan in place & up to date. Maintain agency / industry cooperation. Ensure storage / handling / transportation procedures are adhered to. Ensure resource register & contacts list is up to date. Promote & support "Farm Safe" public awareness campaign	FESA Fire Service LEMC. Department of Industry & Resources LEMC & LEC LEMC.	

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SOURCE OF RISK	TREATMENT OPTION	RESPONSIBILITY FOR IMPLEMENTATION	TIMETABLE
HUMAN EPIDEMIC	HMA Plan in place & up to date. Community to be kept well informed of any potential epidemic. Ensure "Food Safe" program is supported. Ensure appropriate agencies have training in identification, handling, etc of any epidemic.	Health Department. Health Department & local media outlets. Shire of Broomehill-Tambellup. Health Department & Shire of Broomehill-Tambellup.	Health Department Plans currently in place
LAND SEARCH & RESCUE			
RAIL TRANSPORT ACCIDENT	Ensure Rail Emergency Procedures Plan in place & up to date. Support AIMS-ICS across all agencies, including inter-agency training. HMA plans in place & up to date. Recovery Plan in place & up to date.	Shire of Broomehill-Tambellup & Westnet Rail Manager. LEMC. Relevant HMA's & LEC Shire of Broomehill-Tambellup.	Ongoing – up to date
ROAD TRANSPORT ACCIDENT	Ensure Road Emergency Procedures Plan in place & up to date. Support AIMS-ICS across all agencies, including inter-agency training. HMA plans in place & up to date. Recovery Plan in place & up to date.	Shire of Broomehill-Tambellup & MRWA Manager. LEMC. Relevant HMA's & LEC Shire of Broomehill-Tambellup.	Ongoing – up to date
STORM DAMAGE	LEMC support public awareness campaign. HMA Plan in place & up to date. Support emergency services. LEMC maintain contact with lifeline agencies.	LEMC & FESA SES. FESA SES & LEC Shire of Broomehill-Tambellup. LEMC	
FIRE	Support Shire of BH-T Strategic Bushfire Plan (SOP's). Instigate fire prevention strategies. Support public awareness campaign Promote interaction between relevant participating organisations. Support DEC Fire Prevention Plan. Ensure relevant HMA plan in place & up to date. LEMC arrangements in place & up to date. Recovery Plan in place & up to date. Support AIMS-ICS across all agencies, including inter-agency training.	LEMC & Shire of Broomehill-Tambellup. Shire of Broomehill-Tambellup, FESA Fire Services. LEMC & Shire of Broomehill-Tambellup. LEMC. LEMC & DEC. FESA Fire Services & LEC LEMC & LEC Shire of Broomehill-Tambellup. LEMC.	Complete – ongoing review Ongoing Ongoing Ongoing Ongoing Complete - ongoing review Complete – ongoing review