



CITY OF GREATER GEELONG

**Municipal Emergency Management
Planning Committee**

**Community Emergency Risk Management
MUNICIPAL WORKBOOK
No. Two**

**Emergency Risk Management
CERM Action Tables**

Compiled By: MEMPC CERM Working
Group

Date: July 2008

Revisions

Revision Number	Date	Change/ Reason for Change
01	2007	New layout used to summarise risk action tables
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Distribution List

Revision Number	Distributed to			Date Received
	Agency	Position	Name of Person	
03	Council	Municipal Emergency Manager		July 2008
03	Council	Municipal Emergency Resource Officer		July 2008
03	Council	Municipal Recovery Manager		July 2008
03	Council	Public Health Emergency Coordinator		July 2008
03	Council	Municipal Fire Prevention Officer		July 2008
03	Council	Deputy MEROs		July 2008
03	Police	Divisional Emergency Response Coordinator		July 2008
03	Various	Municipal Emergency Management Planning Committee		July 2008

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List of Acronyms

AS/NZS	Australian Standard / New Zealand Standard
AV	Ambulance Victoria (formally Rural Ambulance Victoria)
BoM	Bureau of Meteorology
CCMA	Corangamite Catchment Management Authority
CERM	Community Emergency Risk Management
CFA	Country Fire Authority
CoGG	City of Greater Geelong
CREST	Citizens Radio Emergency Service Teams
DERC	Divisional Emergency Response Coordinator
DHS	Department of Human Services
DOI	Department of Infrastructure
DoTARS	Department of Transport and Regional Services
DPI	Department of Primary Industries
DSE	Department of Sustainability
EMA	Emergency Management Australia
EMAWG	Events Multi Agency Working Group
MECC	Municipal Emergency Coordination Centre
EMMV	Emergency Management Manual Victoria
ICC	Incident Control Centre
MEMPC	Municipal Emergency Management Planning Committee
MEMPlan	Municipal Emergency Management Plan
MEOC	Municipal Emergency Operations Centre
MERC	Municipal Emergency Response Coordinator
MEM	Municipal Emergency Manager
MERO	Municipal Emergency Resource Officer
MHF	Major Hazard Facility
MRM	Municipal Recovery Manager
PHEC	Public Health Emergency Coordinator
POG	Port of Geelong
RRPMs	Raised Reflectorised Pavement Markers (ie 'cats eyes')
VicPol	Victoria Police
VICSES	Victoria State Emergency Service

1. Background

The City of Greater Geelong, Emergency Services and other Organisations first undertook the Community Emergency Risk Management (CERM) assessment in 1997/98. This initial assessment identified risks, evaluated those risks and identified treatment options and action plans.

Subsequent to this initial assessment, there have been two CERM reviews, March 2003 and August 2005. These latter two reviews re-examined the identified risks, the risk rating allocated to same, and reviewed the status of identified actions/control measures.

The Emergency Management Manual Victoria, ie the State Response and Recovery Plan states; *'As part of the planning process, councils need to undertake Emergency Risk Management based on a sound methodology. These guidelines have used the Emergency Risk Management Applications Guide, produced by Emergency Management Australia. Also available is the Community Emergency Risk Management (CERM) process. Both are based on the AS/NZS 4360:2004 Risk Management.'*

In addition, the abovementioned manual states under Conditions for Repeated Assistance *'The State provides financial assistance to councils and catchment management authorities for emergency protection or restoration activities for emergencies reasonably likely to recur, on the condition that: risk management has been applied to the source of risk which gave rise to the emergency for which a claim has been made. Under this condition, the risk management process is assumed to be a structured, iterative and staged process that cycles on a 3-year rolling basis. When a claim is lodged, the council's risk management activities are examined against the process outlined below, on the basis that failure to proceed to any ensuing stage within 12-months may lead to denial of the claim. Councils are required to consider and pursue a range of risk treatment options.'*

Process

- *Undertake a systematic process of risk identification, analysis and assessment, evaluation and prioritization (to AS/NZS 4360:2004 standard or equivalent)*
- *Ensure risk treatment strategies for the particular risks have been, or are being, considered and prioritized, and recommendations made to council*
- *Decide which risk treatment strategies is to be implemented in relation to the type of emergency for which a claim is made*

- *Implement risk treatment strategies in relation to the type of emergency for which a claim has been made*

Once a council commits itself to a recommended risk treatment strategy it must implement it within a reasonable time, depending on the nature of the strategy. Failure to do so will make an application for further assistance ineligible if the same type of emergency re-occurs in the area.' (EMMV, Feb 2001, p 6-20)

The current review that commenced in September 2007, took a more thorough examination of the CERM assessment in light of any amendments made to the AS/NZS 4360:2004 Risk Assessment and the Emergency Management Australia's 2004 publication Emergency Risk Management Applications Guide.

To this end, at the August 2007 meeting of the Municipal Emergency Management Planning Committee meeting, it was agreed to appoint a CERM Working Party and approve its terms of reference. The role of this Working Party was to steer the review of the CERM assessment, assess the risks identified and add to (where necessary) any new risks, review the status of identified actions/control measures, invite public comment and provide regular reports back to the MEMPC. The Working Party kept the MEMPC informed on the progress of the CERM review and individual members of the MEMPC would report to their own agencies/Organisations on the CERM, especially where specific new actions were recommended.

The final phase of the CERM review involved the development of Municipal Workbook No Two, Emergency Management Risk Management Action Tables the purpose of which is to:

1. engage the broader community and
2. seek the communities comments on the risks identified and recommended new actions.

Once the CERM Working Party has reviewed all feedback, the full CERM, ie Workbooks One & Two will then be referred to the MEMPC as per the following table. All participating Agencies/Organisations will be requested to implement identified risk mitigation actions with due recognition of budgetary and resource constraints.

2. Consultation Timetable

Step	Description	Timetable	Comments
1.	CERM Working Party to review final draft of CERM	Early April 08	
2.	Consultation with MEMPC members	May 15 - end June 08, (ie 6-weeks)	
3.	CERM Working Party – review of MEMPC comments on CERM	End June to mid July 08, (ie 2-weeks)	
4.	MERO to liaise with Council IT Dept regarding placement of the CERM document onto Geelong Australia web site	July 2008	
5.	Commencement of Public Consultation	Late July 08 – Mid August 08, (ie 3-weeks)	Have CERM freely available from CoGG website, CoGG Customer Service Centres, Agency Offices, Notice in Sat Geelong Advertiser
6.	Analysis of public comments by CERM Working Party	Completed by mid Sept 08	
7.	Final report to MEMPC	Nov 08	
8.	Briefing Note to Council's Executive	Nov 08 Executive Management Team meeting	

3. About this Document

In recent years, emergency '**risk**' management has been widely adopted as a tool in emergency management. It deals specifically with sources of risks (hazards) that have the capacity to cause emergencies. In essence, the aim is to minimise the risk, hence reduce the incidence and/or severity of an emergency on the community.

Note: An emergency is defined by the Emergency Management Act 1986 as:

An emergency due to an actual or imminent occurrence of an event which in any way endangers or threatens to endanger the safety or health of any person in Victoria or which destroys or threatens to destroy or damage, any property in Victoria, or endangers or threatens to endanger the environment in Victoria including, without limiting the generality of the foregoing –

- (a) an earthquake, flood, windstorm, or other natural event; and*
- (b) a fire; and*
- (c) an explosion; and*
- (d) a road accident or any other accident; and*
- (e) a plague or an epidemic; and*
- (f) a warlike act, whether directed at Victoria or a part of Victoria or at any other State or Territory of the Commonwealth; and*
- (g) a hi jack, siege or riot; and*
- (h) a disruption to an essential service*

Contained within Appendix A of this document are the Action Tables for all the risks ranked by the CERM Working Party as Extreme, High or Moderate.

4. Treating Risks

AS/NZS 4360: 2004 states that *'Risk treatment involves identifying the range of options for treating risks, assessing these options and the preparation and implementation of treatment [ie Action] plans'*.

The risk management treatment measures outlined in the Standard are:

1. Avoid the risk: decide not to proceed with the activity likely to generate the risk;
2. Reduce the likelihood or harmful consequences occurring: by modifying the source of the risk;
3. Reduce the consequences occurring: by modifying susceptibility and/or increasing resilience;
4. Transfer the risk: cause another party to share or bear the risk and
5. Retain the risk: accept the risk and plan to manage its consequence

The Standard goes on to state '*...In general, the cost of managing risks needs to be commensurate with the benefits obtained. When making such a cost verses benefit judgments the context should be taken into account*'.

5. Implementing Treatment/CERM Action Plans

The CERM Action Plans are listed in order of how the risks were ranked within Book One of the CERM, ie the highest risk to the lowest risk. Given that it isn't possible to address all risks simultaneously, the CERM Action Plans will be used as a planning tool for the Municipal Emergency Management Committee. The Committee will, via an on-going fashion, focus on risks allocated an extreme or high risk ranking and work through each of the action plans and undertake the actions identified within the 'PROPOSED NEW TREATMENT STRATEGIES' section of each Action Plan.

The reader will note that the Action Plans document how the identified actions are to be implemented, by whom and the timing of each action. Risk allocated a 'low' ranking are included for information in Appendix A, but no Action Plans have been identified for this group.

6. Proposed New Generic Treatment Strategies

The following actions apply to the 'phases' shown as well as all the risks identified within the following tables:

6.1 Preparedness/Prevention Phase

Development of a Communications Sub-Plan

The development of this plan by the MEMPC will ensure a coordinated approach in conveying information to the community. Issues that need to be considered as part of the sub-plan include:

- Communications links between the ICC and MECC
- Redundancy arrangements (ie back-up arrangements)
- Media management
- Communications methods with the public
- Management of public meetings
- Communications between various Council MECCs

Training of Liaison Officers

Agency Liaison Officers whom are allocated to work within the Municipal Emergency Coordination Centre, MECC, need to be trained on the systems

and procedures used within the MECC. This training will allow these individuals to be more prepared for this working environment.

Allocation of MERO or Deputy MERO to CFA Incident Control Centre

Discussions need to occur between Council and the Country Fire Authorities Region Seven's Operations Manager if there is a need to have either the MERO or Deputy MERO (Liaison) positioned at Region Seven's Incident Command Centre on days of Total Fire Ban for the Central District.

6.2 Response / Recovery 'Phases'

Each Response and Recovery Agency have their own suite of emergency management plans that assist in responding to and recovering from an event. The integrating of the key aspects of these Agency plans will lead to a coordinated approach by all Agencies involved.

Seamless Transition from Response to Recovery Operations

The 2006 Brisbane Ranges – Century Track Wildfire demonstrated a seamless transition between response and recovery 'phases' of the event. This approach must be taken in all Level 3 or 4 events. This approach will ensure that recovery operations commence simultaneously with response operations.

Improved Damage Assessment and Clean-up Operations

One of the many key tasks that need to be performed following an event is that of assessing damage to public and private assets and the coordination of clean-up operations.

Taking a broad approach, the range of tasks includes:

- Assessment of roadways, bridges, roadside furniture and drainage systems
- Assessment of roadside vegetation
- Assessment of services – power, water, telecommunications
- Assessment of affected structures and their contents
- Coordination with insurance companies
- Debris removal
- Coordination of all requests for service
- Coordination & management of volunteers
- Information management between recovery and recovery agencies

To this end, the MEMPC needs to develop some guidelines that will assist all agencies involved in recovery operations.

7. Conclusion

Community Safety is the collaborative effort by community, government, and non-government groups to ensure the safety, wellbeing and stability of society. These efforts are sustained by core values of sustainability, social cohesion, security, cooperation, self-reliance and improved physical environment. Under such a regime, safer communities are locally organised and resourced, well informed about local risks, proactive in prevention, risk averse, motivated and able to manage the majority of local issues through effective planning and action.

APPENDIX A

CERM Action Plans/Tables

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating Extreme	Hazard/Risk Fire (NR8)	Elements at Risk Affects: life, livelihood, environment, social structure, business/commercial/property / stock/crop / asset loss		Action Plan No. 1 Date Compiled: Feb 2008	
Risk Statement: There is a risk to life, property damage (partial or total), damage to infrastructure, (including critical infrastructure), domestic stock losses including farm animals, crops and silage. Marine and aircraft fire could impact on port and aircraft operations. Fire will impact on individuals, businesses, the community and the environment.					
Consequence Rating 4 - Major	Remarks: The event is expected to occur in most circumstances; and/or high level of recorded incidents; and/or very strong anecdotal evidence; and/or a strong likelihood event will re occur; and/or great opportunity, reasons, or means to occur; may occur once every year or more				
Likelihood Rating 5 – Almost Certain	Remarks: Fatalities possible, possible to have a large number of people displaced, significant damage that requires external resources. Community only partially functioning, some services unavailable.				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Country Fire Authority / Department of Sustainability & Environment <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria + Barwon Water					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how? – see below)				Y	N
Preparedness/Prevention		Primary Responsibility	Proposed Action Date	Completed	
1. Control Agency(s) to brief MEMPC on fire risk prior to season		CFA and/or DSE	Annually Nov		
2. All agencies/organizations to review response/recovery plans prior to fire season		MEMPC to oversee	2008		
3. Conduct desktop exercise		MEMPC	2008/09		
4. Undertake a review of all <u>primary</u> Emergency Relief/Recovery Centres & other community centres to ensure their suitability/capability to function as an Emergency Relief/Recovery Centre and provide a report to the MEMPC on same		MRM	Pre 2008/09 fire season		
5. Undertake a review of the IFMP and all fire access tracks and strategic fire management roads		MFPO	Pre 2008/09 fire season		
6. Implement the actions as per the Integrated Fire Management Plan and Breamlea Fire Management Plan		All nominated agencies	2008		
7. CFA and Council to develop and promote an ‘adopt a fire plug promotion/program’ with residents of the Municipality.		CFA/MFPO	2008		
8. Information brochures be sent out with Rates notice re clearing and maintaining land within the City		MFPO	2008		
9. Investigate methods of improving data sharing from ICC to MECC.		Police MERC	2008		
10. Practical exercise – testing links between ICC & MECC		MEMPC	Sept 08		
11. Publicity at appropriate time by CFA/DSE/Council		Nominated Agencies	On-going		
12. CoGG to be pro-active in participating in the CFA’s ‘Fire Ready Victoria’ program in high risk areas of the municipality		CFA & MFPO	Oct - Dec On-going		
Response		MEMPC	On-going		
1. MEMPC to discuss integrating Agencies/Organisations response plans 2. Regular briefing sessions to Agencies & others by Control Agency and Police during an event		Incident Manager and Police	As req’d		
Recovery		MRM & DHS	2008		
1. Council and DHS to liaise on pre-planning the recovery process – one stop shop & services and identification of key agencies					
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating Extreme	Hazard/Risk Accidents - Road (ILR1)	Elements at Risk Affects: life, livelihood, environment, social structure, business/commercial /property loss		Action Plan No. 2 Date Compiled: Feb 2008	
Risk Statement: The City of Greater Geelong has a high number of vehicles on its urban and rural road network. Transport accidents have the potential to cause loss of life/personal injury, environmental damage. Accidents involving commercial and industrial vehicles will have an impact on those enterprises, i.e. loss of product, income, livelihood and business image					
Consequence Rating 4 - Major	Remarks: The event is expected to occur in most circumstances; and/or high level of recorded incidents; and/or very strong anecdotal evidence; and/or a strong likelihood event will re occur; and/or great opportunity, reasons, or means to occur; may occur once every year or more				
Likelihood Rating 5 – Almost Certain	Remarks: Fatalities possible, possible to have a large number of people displaced, significant damage that requires external resources. Community only partially functioning, some services unavailable.				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Victoria Police <u>Coordinating Agency:</u> Victoria Police <u>Support Agencies/Organisations:</u> As per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention 1. In conjunction with VicRoads, Council and Vic Police, the development of pre-prepared traffic diversion plans for key roads within the municipality. 2. DHS to organize to have new Road Trauma Specialist to brief the MEMPC on their role and responsibilities 3. VICSES to continue with road rescue training of its volunteers 4. MEMPC to receive briefing on State Health Emergency Response Plan and Regional Health Emergency Response Plan and the management of mass casualties	Primary Responsibility MERC/MERO/VicRoads DHS VICSES DHS/AV/Hospital	Proposed Action Date 2009 2009 On-going 2009	Completed		
Response 1. All Support Response Agencies/Organisations to support the Control Agency via the Police MERC 2. Ensure that Control Agency is aware of which roads Council maintains and VicRoads maintains	All response agencies MERO & VicRoads ESLO	On-going 2009			
Recovery 1. All Recovery Agencies/Organisations to support the lead Recovery Agency 2. When necessary, DHS to coordinate support counseling/personal support services to road trauma affected individuals 3. Identification and engagement of key support personal/ agencies (including Council)	All recovery agencies DHS MRM & DHS	On-going On-going 2008			
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Extreme	Hazard/Risk Flooding (NR9)	Elements at Risk Affects: life, livelihood, environment, social structure, business/commercial/property loss	Action Plan No. 3	Date Compiled: Feb 2008
Risk Statement: There is a risk of inundation from various watercourses and open drains that will affect areas in the immediate vicinity of the river / creek. In some instances, inundation will include residential and industrial properties and will require the closure of some roads. This is dependant upon the amount of rainfall and the subsequent height of floodwaters. The consequences include financial hardship by those affected including those who are employed within the affected industrial areas.				
Consequence Rating 4 - Major	Remarks: The event is expected to occur in most circumstances; and/or high level of recorded incidents; and/or very strong anecdotal evidence; and/or a strong likelihood event will re occur; and/or great opportunity, reasons, or means to occur; may occur once every year or more			
Likelihood Rating 5 – Almost Certain	Remarks: Fatalities possible, possible to have a large number of people displaced, significant damage that requires external resources. Community only partially functioning, some services unavailable.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> VICSES <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
<ol style="list-style-type: none"> On-going training of CoGG officers on the Hovell's Creek and Moolap Flood Warning Systems Completion of the 'Geelong Warnings' Web Page Investigations into improved Flood Warning Systems used to warn residents and clarify warning responsibilities between VICSES & Council On-going maintenance of waterways, stormwater system (open & underground) and accompanying pumping stations Review protocols for data exchange between Council and VICSES MEMPC review status of recommended actions from GHD report post 1995 flood event Council to investigate providing remote computer access to Hovell's Creek Flood Warning System for FWO & Deputy BoM be invited to do a presentation on flood level predictions and climate change to the MEMPC Reinvigorate Regional Flood Warning Committee Undertake a review of all primary Emergency Relief/Recovery Centres & other community centres to ensure their suitability/capability to function as an Emergency Relief/Recovery Centre and provide a report to the MEMPC on same 	FWO and MERO	On-going		
	MERO FWO & VICSES	2008 2008		
	CCMA & Works Eng (Operations) FWO Manager Eng Services	On-going 2008 2009		
	FWO	2008		
	MERO	Late 2008		
	VICSES & R2D2 MRM	2009 Oct 2008		
	Police MERC	2008		
	MEMPC	2009		
	MERM & DHS	2008		
	MEMPC	2009		
Response				
Recovery				
Approved By	Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Extreme	Hazard/Risk Severe Weather – including Tornados (NR15)	Elements at Risk Affects: life, livelihood, environment, social structure, business/commercial property loss	Action Plan No. 4	Date Compiled: Feb 2008
Risk Statement: There is a risk of property damage (both permanent dwellings and moveable dwellings – caravans/trailers and tents), possible injury of occupants, possible loss of power supply as well as temporary closures of roads due to localized flooding and/or debris/fallen electrical wires obstructing roads				
Consequence Rating 4 - Major	Remarks: The event is expected to occur in most circumstances; and/or high level of recorded incidents; and/or very strong anecdotal evidence; and/or a strong likelihood event will re occur; and/or great opportunity, reasons, or means to occur; may occur once every year or more			
Likelihood Rating 5 – Almost Certain	Remarks: Fatalities possible, possible to have a large number of people displaced, significant damage that requires external resources. Community only partially functioning.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> VICSES <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
1. Develop a 'trigger' for when Police MERC &Control Agency steps in and when MECC is to be established 2. Investigate methods of improving data sharing from Control Agency and Council when MECC isn't activated 3. Integrated planning needed by MEMPC	Police MERC/SES/MERO	2008		
	MERO/VICSES	2008		
	Control Agency & CoGG	2008		
Response 1. Need to clarify role of VICSES/Council in responding to requests so as to ensure that both agencies do not respond to the same request, ie VICSES respond to issues on private property & CoGG on road reserves 2. Clarify protocols for dealing with fallen power lines	VICSES & MERO	2008		
	MEMPC & Powercor	2008		
Recovery 1. Develop methodology for the Identification of affected properties/areas 2. Need to clarify role of Insurance Industry in clean-up phase and timing of clean-up operations 3. Community Engagement – explore avenues of improving the way the community is engaged during the recovery phase 4. Trauma Counseling /Personal Support – discuss protocols for support to affected community members 5. Identification of Support Agencies for inclusion at an Emergency Relief / Recovery Centre and re-examine notification protocol(s)	MRM & DHS	2009		
	CoGG Risk Management Dept	2009		
	MRM & DHS	2009		
	MRM & DHS	2008		
	MRM & DHS	2009		
Approved By	Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating Extreme	Hazard/Risk Building Collapse (SER1)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss		Action Plan No. 5 Date Compiled: Feb 2008	
Risk Statement: There is a risk that the collapse of a building could result in loss of life, multiple injuries, threaten neighboring properties, require the closure (part or full) of abutting roads. Underground services could be impacted on, lead to other risks including fire, entrapment.					
Consequence Rating 5 - Catastrophic	Remarks: Large number of severe injuries. Extended & large numbers requiring hospitalisation. General and widespread displacement for extended duration. Significant/multiple fatalities. Extensive personal support. Extensive damage. Significant impact on environment and/or permanent damage.				
Likelihood Rating 2- Unlikely	Remarks: The event is not expected to occur; and/or no recorded incidents or any anecdotal evidence in associated organisations, facilities or communities; and/or little opportunity, reason or means to occur; may occur once in 100 years.				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> VICSES/ CFA (including Industrial Rescue Operations) <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations-</u> as per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention 1. On-going enforcement of the Building Regulations 2. VICSES & CFA to do a presentation to the MEMPC on specialized equipment/ USAR & Confined Spaces equipment they have access to 3. MEMPC give consideration to developing a 'Master Register' of heavy lifting and other equipment and specialist technical advisers that agencies can call on should a major building collapse occur 4. MEMPC to receive briefing on State Health Emergency Response Plan and Regional Health Emergency Response Plan and the management of mass casualties	Primary Responsibility Building Surveyor VICSES/CFA MEMPC DHS/AV/Hospital	Proposed Action Date On-going 2009 2009 2009	Completed		
Response 1. Develop a methodology whereby building plans of affected buildings can be electronically accessed by relevant agencies 2. Develop protocols with Council Bld Surveyor and Environmental Health Officer in responding to such an event.	CoGG/CFA Liaison Group CoGG/CFA Liaison Group	2009 2009			
Recovery 1. Trauma Counseling/Personal Support – discuss protocols for support to affected community members 2. Recovery Agencies to have discussion on the impact on people, community & essential services	MRM & DHS MRM & DHS	2008 2009			
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Extreme	Hazard/Risk Drought (NR4)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss – including farm stock	Action Plan No. 6	Date Compiled: Feb 2008
Risk Statement: The municipality has an extensive rural area and is currently experiencing a drought coupled with the highest level of water restrictions, i.e. stage 4. The impact of the drought causes a direct impact on the rural community in terms of financial hardship coupled with social and personal implications.				
Consequence Rating 4 - Major	Remarks: External resources required for personal support. Significant damage that requires external resources. Community only partially functioning, some services unavailable. Some financial assistance required Some impact on environment with long term effects. Impact will vary according to circumstances and timeframe			
Likelihood Rating 4- Likely	Remarks: The event will probably occur in most circumstances; and/or regular recorded incidents and strong anecdotal evidence and/or; considerable opportunity, reasons or means to occur, may occur once every five years.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Various <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria + Barwon Water				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. DPI & DHS to perform a presentation to the MEMPC on activities & support services they can/are providing to affected communities in Geelong and Region.	Primary Responsibility DPI / DHS	Proposed Action Date March 2009	Completed	
Response 1. MERO to maintain Council sub-plan that outlines its response operations associated with the disposal of drought affected stock	MERO	On-going		
Recovery 1. Trauma Counseling/Personal Support – discuss protocols for support to affected community members	MRM & DHS	2008		
Approved By		Responsible Officer	Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating Extreme	Hazard/Risk Accidents - Rail (ILR2)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss		Action Plan No. 7 Date Compiled: Feb 2008	
Risk Statement: There is a risk of both passenger or freight train derailment. Freight cars may carry unknown quantities of potentially hazardous substances or dangerous goods. A derailment could result in large loss of life/multiple personal injury, environmental damage, loss of livelihood and personal hardship.					
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. 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 medium term effect or small impact on environment Large multi agency operational response involved				
Likelihood Rating 4- Likely	Remarks: The event will probably occur in most circumstances; and/or regular recorded incidents and strong anecdotal evidence and/or; considerable opportunity, reasons or means to occur, may occur once every five years.				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Victoria Police <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations-</u> as per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention		Primary Responsibility	Proposed Action Date	Completed	
1. MEMPC to receive briefing on State Health Emergency Response Plan and Regional Health Emergency Response Plan and the management of mass casualties and what redundancy measures exist		DHS/AV/Hospitals	2009		
Response 1. MEMPC to discuss integrating Agencies/Organisations response plans		MEMPC	2009		
Recovery 1. MEMPC to discuss integrating Agencies/Organisations recovery plans 2. Trauma Counseling/Personal Support – discuss protocols for support to affected community members		MEMPC & V/Line MRM & DHS	2009 2008		
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Extreme	Hazard/Risk Avian Influenza Pandemic (BPHR5)	Elements at Risk Affects: life, livelihood, social structure, business/commercial loss		Action Plan No. 8 Date Compiled: Feb 2008
Risk Statement: There is a risk of severe social disruption, loss of services. It is believed that this strain has the potential to develop into an Influenza Pandemic as it is closely aligned with the 1918 - 1919 (H1N1) strain. The current H5N1 strain has an estimated global impact in excess of 200 million human deaths if the virus develops the capacity for sustained and efficient human-to-human transmission. The USA Pandemic Implementation Plan states on page 43 "...an outbreak of a novel strain or subtype of influenza capable of sustained and efficient human-to-human transmission... would spread quickly within the affected community, doubling in size approximately every 3-days."				
Consequence Rating 5 - Catastrophic	Remarks: Large number of severe injuries. Extended & large numbers requiring hospitalisation. General and widespread displacement for extended duration. Significant/multiple fatalities. Extensive personal support. Extensive damage. Significant impact on environment and/or permanent damage. Impact will be affected by the extent of infection and how rapidly it moves through the community			
Likelihood Rating 3 - Possible	Remarks: The event 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.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres and other centres as per the State Influenza Response Plan				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Department of Human Services <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
<ol style="list-style-type: none"> Agencies to complete their Pandemic Plans and/or ensure that Business Continuity Plans address a pandemic event CoGG to amend its Pandemic Plan in line with new DHS 'Tool Kit' DHS to conduct further information sessions on Pandemic Planning with both the MEMPC and other emergency committees MEMPC invite an medical industry rep to brief the MEMPC on the likely impact of a Pandemic Event At a future meeting of the MEMPC devote time to discussing how to integrate various agency plans in managing a Pandemic Event in light of severe staff / volunteer shortages MEMPC to receive briefing on State Health Emergency Response Plan and Regional Health Emergency Response Plan and the management of mass casualties 	MEMPC	End 2008		
	MERO & PHEC	June 2008		
	DHS	End 2008		
	MEMPC	2008/09		
	MEMPC	Early 2009		
	DHS/AV/Hospital	2009		
Response 1. All MEMPC members to review their own Business Continuity Plans	Agencies	On-going		
Recovery 1. In line with Vic Influenza Pandemic Plan & processes established within regional and Council Plans 2. Ensure the preparation for the implementation of community support & awareness protocols, in particular with vulnerable groups are in place	DHS & CoGG	Early 2009		
	DHS	Early 2009		
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Extreme	Hazard/Risk Epidemic (BPHR3)	Elements at Risk Affects: life, livelihood, social structure, business/commercial loss	Action Plan No. 9	Date Compiled: Feb 2008
Risk Statement: This risk has the potential to cause loss of life/personal injury, social and business disruption				
Consequence Rating 5 - Catastrophic	Remarks: Large number of severe injuries. Extended & large numbers requiring hospitalisation. General and widespread displacement for extended duration. Significant/multiple fatalities. Extensive personal support. Extensive damage. Significant impact on environment and/or permanent damage. Impact will be affected by the extent of infection and how rapidly it moves through the community			
Likelihood Rating 3 - Possible	Remarks: The event 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.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Department of Human Services <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
1. MEMPC invite a medical industry rep to brief the MEMPC on the likely impact of an Epidemic on the Geelong community 2. MEMPC to receive briefing on State Health Emergency Response Plan and Regional Health Emergency Response Plan and the management of mass casualties	MEMPC	2009		
	DHS/AV/Hospitals	2009		
Response	Response Agencies	2009		
1. Existing response plans to be reviewed following presentation to MEMPC by medical industry rep				
Recovery	Recovery Agencies	2009		
1. Existing recovery plans to be reviewed following presentation to MEMPC by medical industry rep				
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating Extreme	Hazard/Risk Explosion at MHF (TR2)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss, environmental loss		Action Plan No. 10 Date Compiled: Feb 2008	
<p>Risk Statement: Three of the five Major Hazard Facilities located in the municipality are located near residential areas. Sufficient buffer zones exist so as to accommodate the 1×10^{-7} risk contour. This risk contour is equivalent to the risk associated with being struck by lightning.</p> <p>An explosion at these facilities have the potential to cause loss of life/personal injury to those working within the facility, as well as environmental damage, loss of business and business image, extensive asset damage</p>					
Consequence Rating	Remarks: External resources required for personal support. Significant damage that requires external resources. Community only partially functioning, some services unavailable. Some financial assistance required Some impact on environment with long term effects.				
4 - Major					
Likelihood Rating	Remarks: The event 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.				
3 - Possible					
<p>Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres</p>					
<p>Other Agency responsibilities to manage this risk: <u>Control Agency:</u> CFA – explosion, CFA/VICSES – rescue <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u>– as per the Emergency Management Manual Victoria</p>					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention		Primary Responsibility	Proposed Action Date	Completed	
<ol style="list-style-type: none"> MRM & DHS identify suitable Emergency Relief/Recovery Centres that could be used At future meetings of the MEMPC invite representatives of the 5 MHF's to do a presentation of their EM Plans to the MEMPC MEMPC to discuss public warning systems, eg stand alone system or 774 ABC MEMPC to receive briefing on State Health Emergency Response Plan and Regional Health Emergency Response Plan and the management of mass casualties 		MRM/DHS	2008		
		MEMPC	2009/10		
		MEMPC	2009		
		DHS/AV/Hospitals	2009		
Response		Response Agencies	On-going		
<ol style="list-style-type: none"> All response sub-plans are maintained Community engagement – relevant agencies need to be pro-active in having community engagement as part of their plans 		Response Agencies	On-going		
Recovery		Recovery Agencies	On-going		
<ol style="list-style-type: none"> All recovery sub-plans are maintained Trauma Counseling /Personal Support – discuss protocols for support to affected community members 		MRM & DHS	2008		
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Extreme	Hazard/Risk Special Events – sporting & entertainment involving mass gatherings (PMG 2)		Elements at Risk Affects: life, livelihood, social structure, reputation	Action Plan No. 11 Date Compiled: Feb 2008
Risk Statement: There is a risk that without proper planning, participating athletes could suffer from medical threats and residents and spectators could be exposed to unnecessary interruption brought about by poor traffic management/planning				
Consequence Rating 2 - Minor	Remarks: Small number of injuries but no fatalities. First Aid treatment required. Some displacement of people (less than 24 hrs) Some personal support required. Minor legal issues, non compliances and breaches of regulation Media attention of local concern Impact is affected by prevailing weather conditions at the time the event is run			
Likelihood Rating 2 - Unlikely	Remarks: The event is not expected to occur provided adequate forward planning and weather related cancellation triggers are enforced			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Police <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. Chair of Council’s Events Multi Agency Working Group (EMAWG) be invited to a MEMPC to discuss event planning and weather related cancellation triggers for events involving extended physical activities 2. Should no weather related triggers exist, then the MEMPC to form a sub-group to examine this issue 3. MEMPC to receive briefing on State Health Emergency Response Plan and Regional Health Emergency Response Plan and the management of mass casualties	Primary Responsibility MEMPC Chair MEMPC DHS/AV/Hospital	Proposed Action Date Pre 2008 summer 2009 2009	Completed	
Response 1. Response agencies to ensure that planning is conducted for events such as these	Response Agencies	On-going		
Recovery 1. Recovery agencies to ensure that planning is conducted for events such as these	Recovery Agencies	On-going		
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating High	Hazard/Risk Fog/Frost/Extreme Cold (NR10)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss.		Action Plan No. 12 Date Compiled: Feb 2008	
Risk Statement: There is a risk of weather conditions that can give rise to fog/frost/extreme cold. These conditions, frost & extreme cold, will present a risk to, in particular, elderly or homeless residents and fog to vehicular traffic and pedestrians					
Consequence Rating 2 - Minor	Remarks: Small number of injuries but no fatalities. First Aid treatment required. Some displacement of people (less than 24 hrs) Some personal support required. Minor legal issues, non compliances and breaches of regulation Media attention of local concern Impact is affected by prevailing weather conditions at the time and the duration				
Likelihood Rating 5 – Almost Certain	Remarks: The event is expected to occur in most circumstances; and/or high level of recorded incidents; and/or very strong anecdotal evidence; and/or a strong likelihood event will re occur; and/or great opportunity, reasons, or means to occur; may occur once every year or more				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Determined by emergency created by the weather event <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention		Primary Responsibility	Proposed Action Date	Completed	
1. Police MERC to liaise with Barwon Road Safety Council to prepare messages for use by radio stations when frost/fog/extreme cold occurs 2. MEMPC invite utility reps to undertake a presentation to the MEMPC on how they would manage higher than expected demand in service or another 'Longford' scenario		Police MERC	2008		
		MEMPC	2009		
Response 1. Response Plans o be amended following presentation by Utility reps to MEMPC		Response Agencies	2009		
Recovery 1. Recovery Plans to be amended following presentation by Utility reps to MEMPC		Recovery Agencies	2009		
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Heat Wave (Assume min of 3 or more consecutive days of +40°C) (NR11)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss. Loss of essential services prolonged	Action Plan No. Date Compiled: Feb 2008	13
Risk Statement: There is a risk that a sustained heat wave will have an adverse impact on the physical and mental health of the community and, in particular, the elderly and the young that do not have access to air conditioning				
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience			
Likelihood Rating 4 - Likely	Remarks: The event will probably occur in most circumstances; and/or regular recorded incidents and strong anecdotal evidence and/or; considerable opportunity, reasons or means to occur, may occur once every five years.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Department of Human Services <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. MEMPC to investigate planning undertaken for such an event by water and power Utilities and medical agencies/organisations 2. MEMPC o invite BoM to do a presentation on Climate Change	Primary Responsibility MEMPC MEMPC Exec Officer	Proposed Action Date 2010 2010	Completed	
Response 1. Develop general information on how residents can minimize impact of extended heat wave on Geelong Warnings Web Page and local radio	MERC/DHS/PHEC/ MERO	2009		
Recovery 1. Recovery agencies to develop plans on responding to such an event	MRM & DHS	2009		
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Hazardous Materials/Chemical/ Plumage/Nuclear – CBNR (TR4)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss.	Action Plan No. 14	Date Compiled: Feb 2008
Risk Statement: There is a risk of public danger, possible loss of life and environmental damage				
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience			
Likelihood Rating 4 - Likely	Remarks: The event will probably occur in most circumstances; and/or regular recorded incidents and strong anecdotal evidence and/or; considerable opportunity, reasons or means to occur, may occur once every five years.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> CFA - Chemical incidents, DHS – Biological & Radioactive material accident <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. Invite industry reps to outline their emergency management plans to the MEMPC 2. MEMPC to check with WorkSafe that relevant high risk premises have EM plans & MEMPC to ensure that relevant agencies have response plans	Primary Responsibility MEMPC MEMPC	Proposed Action Date 2010 2010	Completed	
Response Plans to be updated pending Industry presentations to MEMPC	Response Agencies	2010		
Recovery Plans to be updated pending Industry presentations to MEMPC	Recovery Agencies incl Council EHO's and DHS	2010		
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Communication Breakdown (ILR6)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss, transport	Action Plan No. 15	Date Compiled: Feb 2008
Risk Statement: There is a risk that a failure of communications, in particular, telephone (fixed / mobile / satellite) as well as Agency two-ways could impact on the community and response operations				
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience			
Likelihood Rating 4 - Likely	Remarks: The event will probably occur in most circumstances; and/or regular recorded incidents and strong anecdotal evidence and/or; considerable opportunity, reasons or means to occur, may occur once every five years.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Individual Agencies <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. Agencies to develop contingency plans that mitigate such a situation 2. Agenda item for MEMPC – General discussion on Agencies to advise MEMPC on communication redundancy plans that exist for their organization and the potential impact of this risk on the community 3. MEMPC to develop Communication Plan that includes arrangements for a total communications failure	Primary Responsibility MEMPC MEMPC MEMPC	Proposed Action Date 2009 2009 2010	Completed	
Response 1. For a total failure – Response Plans need to reflect that relevant agency reps would report to the Geelong Police Station so as to coordinate response operations	Response Agencies	2009		
Recovery 1. For a total failure – Recovery Plans need to reflect that relevant agency reps would report to the Geelong Police Station so as to coordinate recovery operations	Recovery Agencies	2009		
Approved By Council		Responsible Officer MEM & MEMPC		Next Review Date Feb 2011
	MEMPC	Other		

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Critical Infrastructure Failure/Threat (ILR7)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss, environment	Action Plan No. Date Compiled: Feb 2008	16
Risk Statement: Utility failure, especially for an extended period of time, has the potential to cause major and widespread disruption to all affected households, businesses. Loss of power for > 12 hours may require support at some facilities (where no alternative exists) including: Aged care facilities, some hospitals, education facilities, Loss of water will have an immediate impact on residents and businesses.				
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience			
Likelihood Rating 3 - Possible	Remarks: The event 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.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Dept of Infrastructure & Dept of Sustainability & Environment, Victoria Police – Threats to critical infrastructure <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria & relevant asset owner,				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. Police MERC to maintain a list of critical infrastructure within the municipality 2. Relevant critical infrastructure ‘owners’ to be invited to do a presentation to the MEMPC 3. Agencies to develop/review integrated contingency plans that mitigate such a situation	Primary Responsibility Police MERC MEMPC Chair Agencies	Proposed Action Date On-going 2010 On-going	Completed	
Response 1. MEMPC discuss the potential impact of critical infrastructure loss on response operations	MEMPC	2010		
Recovery 1. MEMPC discuss the potential impact of critical infrastructure loss on recovery operations	MEMPC	2010		
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Ozone Depletion (NR13)	Elements at Risk Affects: life, livelihood, social structure, business/commercial/environmental loss,	Action Plan No. 17	Date Compiled: Feb 2008
Risk Statement: There is a risk of increased skin cancers or eye problems				
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience			
Likelihood Rating 3 - Possible	Remarks: The event 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.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> To Be Advised <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
1. MEMPC monitor MAV, State and Federal Govt for any information that is released on this issue	MEMPC	On-going		
2. Bureau of Meteorology or CSIRO be invited to brief the MEMPC on the likely impact of a further depletion of the ozone layer	MEMPC Chair	2010		
Response Response Operations to be coordinated based on severity of event and advise received from Emergency Management Australia or State ICC	Response Agencies	On-going		
Recovery Recovery Operations to be coordinated based on severity of event and advice received from Emergency Management Australia or State ICC	Recovery Agencies	On-going		
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating High	Hazard/Risk Pollution (TR3)	Elements at Risk Affects: Life. Social structure, environmental loss		Action Plan No. 18 Date Compiled: Feb 2008	
Risk Statement: There is a risk of public danger, possible loss of life and environmental damage					
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience				
Likelihood Rating 3 - Possible	Remarks: The event 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.				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> EPA – air pollution, pollution of inland waters, CFA – pollution into inland waters <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed		
1. Council to investigate possibility of providing electronic access to councils drainage plans for CFA & EPA	MERO	2010			
Response 1. Council to keep a ready small supply of absorbent booms, pillow pads, oil and fuel spill kits etc to assist with managing oil/fuel spills from the drainage system	MERO	July 2008			
Recovery Recovery operations to be coordinated based on severity of event and advice received from EMA or State Incident Control Centre.	Recovery Agencies	On-going			
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Animal Disease/Plague (BPHR1)	Elements at Risk Affects: life, livelihood, business/commercial property/stock loss, environmental damage	Action Plan No. 19	Date Compiled: Feb 2008
Risk Statement: There is a risk of an outbreak that affects, in particular, farm animals. Depending upon the disease, there could be a need for the mass culling of animals, thus affecting livelihoods, a risk of human infection leading to illnesses and possible deaths				
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience			
Likelihood Rating 3 - Possible	Remarks: The event 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.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Department of Primary Industries <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria,				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. DPI to brief MEMPC on locations within the Region that are could be impacted on by such an event and assistance that may be required.	Primary Responsibility	Proposed Action Date	Completed	
	DPI	2010		
Response 1. Agency plans/procedures to be amended pending DPI presentation to MEMPC	Response Agencies	2010		
Recovery 1. Recovery Agencies to discuss Community support & public health arrangements	Recovery Agencies incl DPI, DHS, MRM/PHEC	2010		
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Marine Accidents (ILR3)	Elements at Risk Affects: life, livelihood, business/environmental loss,	Action Plan No. 20	Date Compiled: Feb 2008
Risk Statement: There is a risk of both small and large marine craft /vessel accidents. Large vessels, ie ships could have serious financial implications for the port should a vessel or vessels collide within the narrow channel, at the entrance to the inner harbour or at a berth				
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience			
Likelihood Rating 3 - Possible	Remarks: The event 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.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Vic Police (excluding Naval vessels), but Control Agency can be influenced by nature of the emergency <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
1. MEMPC to invite rep from AMOSC to outline their services and protocols for activation during an oil spill	MEMPC	2010		
2. Clarify foreshore responsibilities between the various foreshore managers, CoGG, Industry, Foreshore Committee(s), Parks Vic	CoGG Man Env & Nat resources	2009		
3. Relevant Agency and CoGG reps to attend the Port Phillip Marine Pollution Contingency Planning Meetings and CoGG rep to brief the MEMPC on same	Deputy MERO (Liaison)	On-going		
4. MEMPC examine the outcomes of the Marine Emergency Framework Review for major ports and the CFA-Aust Coast Guard Partnership	MEMPC Working Party (to be established)	2010		
Response	Response Agencies	On-going		
1. Response arrangements to respond as per State arrangements	DSE/EPA/DPI	2009		
2. Confirm arrangements for wildlife assistance for inclusion in the MEMPlan				
Recovery	DHS & MRM	2008		
1.. Trauma Counseling/Personal Support – discuss protocols for support to affected community members				
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Release of Carcinogens / Mutations/Pathogens (BPHR7)	Elements at Risk Affects: life, livelihood, business/environmental loss	Action Plan No. 21	Date Compiled: Feb 2008
Risk Statement: There is a risk to employees and the public that an accidental release of fumes/vapor from industrial establishments within the City. These releases could contain substances that are harmful to humans				
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience			
Likelihood Rating 3 - Possible	Remarks: The event 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.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Department of Human Services <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. MEMPC to improve its level of knowledge on these facilities 2. MEMPC to engage the facility manager to assess the level of risk and possible impact on relevant agencies	Primary Responsibility MEMPC MEMPC	Proposed Action Date 2010 2010	Completed	
Response Response Agencies to amend response plans pending information obtained from 2 (above)	Response Agencies	2010		
Recovery 1. Response Agencies to amend response plans pending information obtained from 2 (above) 2. Trauma Counseling/Personal Support – discuss protocols for support to affected community members	Recovery Agencies MRM, PHEC & DHS	2010 2008		
Approved By Council	MEMPC	Other	Responsible Officer MEM & MEMPC	Next Review Date Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Earthquake (NR5)	Elements at Risk Affects: life, livelihood, social structure, business/environmental loss, transport	Action Plan No. 22	Date Compiled: Feb 2008
Risk Statement: The risk of an earthquake, should the epicenter be located at a shallow depth and within the urban area could cause significant asset damage within the municipality that would have a direct impact on, in particular, the urban community in terms of financial hardship coupled with social and personal implications.				
Consequence Rating 4 - Major	Remarks: External resources required for personal support. Significant damage that requires external resources. Community only partially functioning, some services unavailable. Some financial assistance required			
Likelihood Rating 2 - Unlikely	Remarks: The event is not expected to occur			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> VICSES <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. CFA and VICSES continue with training/ exercising on search & rescue 2. MEMPC invite a Geelong based Geotechnical Engineer to brief the committee on Geelong's risk to an earthquake event and the potential magnitude of same 3. Following on from 2 (above) and if necessary, the MEMPC investigate funding options to follow-up the study undertaken in 2000	Primary Responsibility VICSES/CFA MEMPC MEMPC	Proposed Action Date On-going 2010 2010	Completed	
Response 1. For such an event where extensive damage has taken place MERO to automatically establish MECC 2. MERO, Police MERC and Control Agency to discuss the most efficient methodology to assess damage to municipality	MERO MERO, Police MERC, S/W Regional Manager VICSES	On-going 2010		
Recovery 1. Trauma Counseling/Personal Support – discuss protocols for support to affected community members 2. Other actions as per Building Collapse (SER1)	DHS & MRM	2008		
Approved By Council		Responsible Officer MEM & MEMPC	Next Review Date Feb 2011	
MEMPC	Other			

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating High	Hazard/Risk Aviation Accidents (ILR4)	Elements at Risk Affects: life, business loss, social disruption	Action Plan No. 23	Date Compiled: Feb 2008
Risk Statement: There is a risk of both small and large aircraft accidents. Large passenger aircraft could have serious loss of life involving passengers/crew and residents – should the aircraft crash into populated areas				
Consequence Rating 4 - Major	Remarks: External resources required for personal support. Significant damage that requires external resources. Community only partially functioning, some services unavailable. Some financial assistance required			
Likelihood Rating 1 - Rare	Remarks: The event may occur only in exceptional circumstances			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Vic Police – accident, CFA - fire and/or explosion. (Excluding Defense aircraft, Air Services Aust) <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
1. Relevant Agencies to participate in yearly exercises conducted by Avalon Airport and relevant outcomes included in agency plans 2. Specific planning for Airshows 3. MEMPC to receive briefing on State Health Emergency Response Plan and Regional Health Emergency Response Plan and the management of mass casualties	All MEMPC Exec Officer	On-going (yearly) 2009		
Response				
1. CoGG to position Deputy MERO (Liaison) in Airport ICC	CoGG	During Airshow event		
Recovery				
1. Trauma Counseling/Personal Support – discuss protocols for support to affected community members	DHS & MRM	2008		
Approved By		Responsible Officer	Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating High	Hazard/Risk Aust. Animal Health Lab. (BPHR8)	Elements at Risk Affects: life, business loss, social disruption		Action Plan No. 24 Date Compiled: Feb 2008	
Risk Statement: There is a risk to employees and the public that an accidental release of fumes/vapor from the Australian Animal Health Laboratory could contain substances that are harmful to humans and the environment					
Consequence Rating 4 - Major	Remarks: External resources required for personal support. Significant damage that requires external resources. Community only partially functioning, some services unavailable. Some financial assistance required				
Likelihood Rating 1 - Rare	Remarks: The event may occur only in exceptional circumstances				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> C'wealth supported by State Agencies <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention		Primary Responsibility	Proposed Action Date	Completed	
1. MEMPC to organise a tour of the facility as well as a briefing on containment measures/protocols utilized by AAHL		MEMPC Executive Officer	2008	May 2008	
Response 1. Response agencies to prepare a joint Incident Response Plan for this site		Police MERC to coordinate	2009		
Recovery 1. MRM identify Emergency Relief Centre(s) should an incident occur at this facility 2. Principle Response & Recovery agencies to prepare a joint Incident Response Plan for this site 3. Trauma Counseling/Personal Support – discuss protocols for support to affected community members		MRM Victoria Police & DHS to coordinate DHS & MRM	2009 2009 2008		
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating Moderate	Hazard/Risk Coastal Erosion (NR6)	Elements at Risk Affects: Environmental/property loss,		Action Plan No. 25 Date Compiled: Feb 2008	
Risk Statement: There is a risk of on-going coastal erosion that will cause, in some areas, cliff instability that will threaten some infrastructure, particularly drainage assets/outfalls and the natural environment					
Consequence Rating 2 - Minor	Remarks: Small number of injuries but no fatalities. First Aid treatment required. Some displacement of people (less than 24 hrs) Some personal support required. Some damage. Small impact on environment with no lasting effects Some financial loss (up to \$100,000), minimal response operation involved, possibly involving multiple agency response.				
Likelihood Rating 4 - Likely	Remarks: The event will probably occur in most circumstances; and/or regular recorded incidents and strong anecdotal evidence and/or; considerable opportunity, reasons or means to occur, may occur once every five years.				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Department of Sustainability & Environment <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention		Primary Responsibility	Proposed Action Date	Completed	
1. MERO to contact Council's Environment Unit to see any maps/plans exist that identify high risk locations as well as any consultant reports and report back to MEMPC.		MERO	2010		
Response 1. Relevant response agencies to consider impact on residential areas that may be identified via 1 (above)		Response Agencies	2010		
Response 1. Relevant recovery agencies to consider impact on residential areas that may be identified via 1 (above)		MRM & DHS	2010		
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating Moderate	Hazard/Risk Oil Spills (TR5)	Elements at Risk Affects: Environmental/property loss,		Action Plan No. 26 Date Compiled: Feb 2008	
Risk Statement: There is a risk of environmental damage due to a marine or land based accident or deliberate action.					
Consequence Rating 4 - Major	Remarks: Some impact on environment with long term effects. Large multi agency operational response involved involving Divisional and possibly State assistance				
Likelihood Rating 1 - Rare	Remarks: The event may occur only in exceptional circumstances				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> MSV – for oil pollution in State waters, VCA, Local Port Operator – environmental issues, CFA – pollution into inland waters, EPA – pollution of inland waters <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention		Primary Responsibility	Proposed Action Date	Completed	
1. Australian Marine Oil Spill Centre (AMOSC), Nth Geelong be invited to attend a future MEMPC meeting and give a presentation on their services		MEMPC Exec Officer	2010		
2. CoGG to clarify foreshore responsibilities with other foreshore managers – F'shore committee, Parks Vic etc (refer also to ILR3)		CoGG Man Env & Nat resources	2008		
3. (refer also to ILR3)					
Response (refer also to ILR3)					
Recovery (refer also to ILR3)					
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Moderate	Hazard/Risk Bridge Collapse (SER2)	Elements at Risk Affects: life, livelihood, social structure, business/commercial property loss, transport	Action Plan No. 27	Date Compiled: Feb 2008
Risk Statement: The Municipality has a large number of structures. Failure of any of these structures will cause some disruption to the local community that frequents that structure. The majority of the road bridges and major culverts are made from concrete. The potential risk to these structures is from fire, flood, and overloading				
Consequence Rating 5 – Major -	Remarks: Some impact on environment with long term effects. Large multi agency operational response involved involving Divisional and possibly State assistance Rating assumes that bridge is carrying or traversing road and/or rail and/or pedestrian traffic on or under the structure at the time of collapse			
Likelihood Rating 4 – Possible	Remarks: The event 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.			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> VicRoads – road bridges, DoI/DSE – public rail bridges <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria + Relevant Utility Service (ie affected by loss of asset due to collapse)				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
1. MEMPC seek details of inspection programs from relevant asset owners 2. In conjunction with VicRoads, Council and Vic Police, develop pre-prepared traffic diversion plans for key roads within the municipality. 3. VICSES/CFA to do a presentation to the MEMPC on specialized equipment/training they have access to 4. MEMPC give consideration to developing a ‘Master Index’ of lifting and other equipment and specialist technical advisers that agencies can call on should a major building collapse occur	MEMPC	2010		
	MEMPC	2010		
	VICSES/CFA	2010		
	MEMPC	2009		
Response				
1. Police, VicRoads ESLO, & MERO – develop potential traffic detour plans that could be implemented	MERC, MERO, VicRoads ESLO	2009		
Recovery				
1. Trauma Counseling/Personal Support – discuss protocols for support to affected community members	DHS & MRM	2008		
Approved By		Responsible Officer		Next Review Date
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating Moderate	Hazard/Risk Plant Disease (BPHR6)	Elements at Risk Affects: life, livelihood, social structure, business/environmental loss, stock loss		Action Plan No. 28 Date Compiled: Feb 2008	
Risk Statement: This risk has the potential to affect environmental and agricultural activities. These impacts include, business interruption, loss of livelihoods and environmental impacts.					
Consequence Rating 2 - Minor	Remarks: Some displacement of people (less than 24 hrs) Some personal support required. Small impact on environment with no lasting effects Some financial loss (up to \$100,000), minimal response operation involved, possibly involving multiple agency response.				
Likelihood Rating 3 - Possible	Remarks: The event 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.				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Department of Primary Industries <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention DPI to provide briefing to MEMPC on potential and impact brought on by this risk	Primary Responsibility DPI	Proposed Action Date 2010	Completed		
Response Response plans to be modified based on above presentation	Response Agencies	2010			
Recovery Response plans to be modified based on above presentation	Recovery Agencies	2010			
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Moderate	Hazard/Risk Contamination Food/Water (BPHR2)	Elements at Risk Affects: life, social structure, business/commercial loss, livelihood, stock loss	Action Plan No. 29	Date Compiled: Feb 2008
Risk Statement: This risk has the potential to cause loss of life/personal injury, social and business disruption				
Consequence Rating 4 - Major	Remarks: Some impact on environment with long term effects. Large multi agency operational response involved involving Divisional and possibly State assistance			
Likelihood Rating 2 - Unlikely	Remarks: The event is not expected to occur			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Department of Human Services <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
Barwon Water be invited to do a presentation to MEMPC on water monitoring	MEMPC Exec Officer	2010		
PHEC be invited to do a presentation to MEMPC on food premise monitoring	PHEC	2010		
Response				
Recovery 1. Investigate the best method of disseminating information to the community	DHS/ MRM & PHEC			
Approved By		Responsible Officer	Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Moderate	Hazard/Risk Dam Failure/ Detention Basin (SER3)	Elements at Risk Affects: life, social structure, business/commercial loss, livelihood, stock loss, water supply loss, public health	Action Plan No. 30	Date Compiled: Feb 2008
Risk Statement: A breach or sudden catastrophic failure has the potential to cause loss of life/personal injury, environmental damage, impact on business and the social fabric of the community				
Consequence Rating 3 - Moderate	Remarks: Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience			
Likelihood Rating 2 - Unlikely	Remarks: The event is not expected to occur			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> DSE – dam integrity <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria + Barwon Water				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention 1. Barwon Water be invited to do a presentation to the MEMPC on their Dam / Storage Basin surveillance program 2. Council to undertake risk assessments of large, ie >500,000 litre above ground drainage detention basins located in Urban areas of the municipality	Primary Responsibility Barwon Water Manager Eng Services	Proposed Action Date 2010 2009	Completed	
Response 1. pending outcome of item 2 (above) Council to prepare sub-plan for responding to such an event. This plan to consider overland flow paths and identify properties considered to be at risk	Manager Eng Services	2010		
Recovery 1. pending item 2 (above) Council to prepare sub-plan for recovering from such an event	MRM & PHEC	2010		
Approved By Council		Responsible Officer MEM & MEMPC		Next Review Date Feb 2011
MEMPC	Other			

City of Greater Geelong CERM Risk Register and Risk Management Action Plan				
Risk Rating Moderate	Hazard/Risk Depth of Emergency Management expertise within the Council (BPHR4)	Elements at Risk Affects: life, social structure, business/commercial loss, livelihood, stock loss, water supply loss, public health	Action Plan No. Date Compiled: Feb 2008	31
Risk Statement: This risk could give rise to increasing the magnitude of the impact of the event on the effected community				
Consequence Rating 2 - Minor	Remarks Some displacement of people (less than 24 hrs) Some personal support required. Small impact on environment with no lasting effects Some financial loss (up to \$100,000), minimal response operation involved, possibly involving multiple agency response.			
Likelihood Rating 2 - Unlikely	Remarks: The event is not expected to occur			
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres				
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Coordinating Agency: Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria				
PROPOSED NEW TREATMENT STRATEGIES				
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)			Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)			Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed	
1. Key deputy staff undertake training in response/recovery operations	MERO & MRM	On-going		
2. MERO and MRM undertake training of other CoGG staff	MERO & MRM	On-going		
Response				
Recovery				
Approved By		Responsible Officer	Next Review Date	
Council	MEMPC Other	MEM & MEMPC	Feb 2011	

City of Greater Geelong CERM Risk Register and Risk Management Action Plan					
Risk Rating Moderate	Hazard/Risk Disused Mine Shafts (TR6)	Elements at Risk Affects: life, livelihood		Action Plan No. 32 Date Compiled: Feb 2008	
Risk Statement: There is a risk that hikers, particularly those located within the Anakie, Steiglitz area of the municipality could accidentally walk over and crash through an unsound mineshaft cover and fall into the mine sustaining injury or even death					
Consequence Rating 3- Moderate	Remarks Medical treatment required but no fatalities. Possibly some hospitalisation. Localised displacement of people who return within 24- 72hrs. Personal support satisfied through local arrangements Normal community functioning with some inconvenience				
Likelihood Rating 1- Rare	Remarks: The event may occur only in exceptional circumstances				
Council responsibilities to manage this risk: Council is required to act as a Support Agency to the Control Agency in both the response and recovery phases. Activate its own response and recovery plans and provide resources owned or under to control of council to the Control Agency via the Police MERC If required, establish the Municipal Emergency Coordination Centre (MECC) and Emergency Relief/Recovery Centres					
Other Agency responsibilities to manage this risk: <u>Control Agency:</u> Vic Police – rescue, DSE, CFA – trench & tunneling <u>Coordinating Agency:</u> Victoria Police (response phase), Department of Human Services (recovery phase) <u>Support Agencies/Organisations</u> – as per the Emergency Management Manual Victoria					
PROPOSED NEW TREATMENT STRATEGIES					
Can this risk be managed via existing controls and/or will the risk be tolerated? (If yes, see below for additional controls)				Y	N
Can Likelihood and/or Consequence rating be reduced? (If yes, how?)				Y	N
Preparedness /Prevention	Primary Responsibility	Proposed Action Date	Completed		
1. MEMPC to investigate and then discuss the need to develop maps and erecting warning signs	MEMPC	2010			
Response					
Recovery					
Approved By		Responsible Officer		Next Review Date	
Council	MEMPC	Other	MEM & MEMPC	Feb 2011	

APPENDIX A: Risks Allocated a Low Risk Rating

Risk No.	Risk Statement	Revised Risk Rating (from Part 4 CERM Book 1)	Remarks (Risk Group and Likelihood / Consequence Rating)
NR 16 (Storm Surge /King Tide)	There is a risk of inundation of low lying areas. It is unlikely that inundation would involve habitable buildings and would most likely be limited to flooding of shorelines and roads located near the shore. This may require short term, localised road closures	Low	Group One: Natural Risks Likelihood/Consequence Rating: 3/1
PSCR1 (Bomb Threat)	This risk has the potential to disrupt the social and business community, the potential to cause the loss of life / personal injury	Low	Group Six: Political Circumstances / Sovereign Risks Likelihood/Consequence Rating: 2/2
PSCR2 (Terrorist)	This risk has the potential to disrupt the social and business community, the potential to cause the loss of life / personal injury. Depending upon the scale of the attack, the impact could be medium to long term in duration.	Low	Group Six: Political Circumstances / Sovereign Risks Likelihood/Consequence Rating: 2/2
SER5 (Road Collapse)	There is a risk of damage to road user vehicles and possibly of human life. A sudden road collapse/slip could also impact on underground services located within the affected area. Depending upon the size of the failure, road detours may need to be established that have a 'knock on' effect to road users.	Low	Group Five: Structural Environmental Risks Likelihood/Consequence Rating: 2/2
NR12 (Landslip/ Rockfall/ Landslide)	There is a risk that a landslip/rock fall/landslide could close public roads and places that could threaten members of the public	Low	Group One: Natural Risks Likelihood/Consequence Rating: 2/2
SER4 (Flood Levee Failure)	There is a risk of inundation from various watercourses that will affect areas in the immediate vicinity of the river / creek. In some instances, inundation will impact on residential and will require the closure of some roads. This is dependant upon the amount of rainfall and the subsequent height of floodwaters. The consequences include financial hardship by those affected.	Low	Group Five: Structural Environmental Risks Likelihood/Consequence Rating:1/2

Risk No.	Risk Statement	Revised Risk Rating (from Part 4 CERM Book 1)	Remarks (Risk Group and Likelihood / Consequence Rating)
PMG1 (Riots /Social Breakdown/Civil Disturbance)	There is a risk of Social breakdown could be a result of panic within the community due to hysteria associated with a pandemic event, especially deaths start to occur and there is a lack of vaccine	Low	Group Six: Political Circumstances / Sovereign Risks Likelihood/Consequence Rating:1/2
NR14 (Sea Level Rise)	There is a risk of inundation of low lying areas with the exact extent unknown due to lack of data to predict sea level rises. It is unlikely that inundation would involve habitable buildings and would most likely be limited to flooding of shorelines and roads located near the shore. Drain outfalls may be submerged thus leading to potential flooding upstream of the outlet. Long term road closures may be requires as well as the abandonment of low lying residential areas leading to displaced families/individuals as well as insurance issues.	Low	Group One: Natural Risks Likelihood/Consequence Rating: 1/2
TR1 (Aeronautical/ Space Debris)	There is a risk that aeronautical/space debris could impact within the municipality, possibly on a populated area. For an aeronautical event this could result in widespread property damage, personal injury/death or a combination of both. For space debris, the impact would be somewhat less due to debris size and lack of flammable fuels.	Low	Group Two: Technological Risks Likelihood/Consequence Rating:1 / 2