ATTACHMENT 12: DETAILED RISK ACTION (DISASTER MITIGATION) PLANS (FORM A13) RISK ACTION (DISASTER MITIGATION) PLAN

URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 1

1. Review the role and function of the Local Counter Disaster Committee and revise the Local Counter Disaster Plan (in keeping with the new requirements) to ensure the focus is on strategic natural (and man-made) disasters (Prevention, Preparedness, Response and Recovery), rather than responsive strategies for individual incident management through:
   a) Review of key emergency service capability and development of appropriate education/training programs;
   b) Establishment of an annual calendar of events including an annual table top scenario exercise;
   c) Establishment of regular meeting schedules of the Committee including member education and presentations by key agencies (e.g. CDRS, SES, UF&RS, RFS, and Police etc);
   d) establish a risk based recovery clean up system;
   e) identify extent of equipment and personnel that may be able to be used in emergency situations such as bushfires and flooding events etc (water carriers, transport, dozers and graders) in the rural home site, rural residential and rural parts of the Shire;
   f) identify key/lead agencies that contribute to the Shire disaster mitigation process and through the annual emergency planning exercise, identify gaps in service provision and develop integrated actions across the sector
   g) Develop a comprehensive public education program for key areas of risk (see also 2).

RISK AREAS:

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/slip
8. Bushfire; and

RIC: PEOPLE
- People not receiving the warning
- People not heeding the warning
- Transport needs of the frail and disabled and their carers – safe evacuation
- Impact of power loss/isolation on the disabled – medication other
- School children/others becoming isolated
Impact on new residents
Inability of residents to get supplies
Time and day of event requires consideration in terms of warning strategy
Presence of tourists and sightseers – crowd control
Impact on family pets
Effluent problems of short duration
Possibility of injury from fallen power lines and underground power
Possibility of community members being under or un-insured (for flood)
Destruction of personal property
Complacency on the part of the community (“I haven’t been flooded before”)
Road closures being ignored, endangering lives
Injury to members of the community and emergency personnel
Emergency accommodation limitations
Disease/presence of debris (garbage and other litter)
Panic amongst the community
Ability of Hospital to meet demands (incl. Mortuary)

RIC: RESIDENTIAL

• Damage from flying debris
• Lack of preparedness of the community
• Lack of knowledge of responsive strategies
• Impact of power loss on the disabled
• Transport needs of the frail and disabled and their carers
• Ability of the utility services to function (garbage, effluent, water and power)
• Impact of economic loss on the community and service providers post event
• Destruction of residential abode
• Requirements for emergency accommodation
• Disruption to communications
• People not willing to leave
• Theft and presence of looters
• Impact of limited insurance cover on the community
• Ability of community to use equipment/generators and like equipment
• Impact of falling powerlines and poles
• Impact of structural damage
• Loss of accommodation
• Ability of Shire to provide temporary accommodation
• Loss of access to facilities
• Impact on aged persons homes
RIC: COMMERCIAL
- Property damage
- Loss of trade (temporary and permanent)
- Possible closure of the business
- Loss of services
- Security of business systems
- Loss of stock
- Restocking costs
- Insurance claims and re-insurance impact – delays, costs etc
- Ability to return to business
- Short term loss of employment within the community
- Ability of the commercial business to respond during and post event
- Ability of the aged care and hostel sectors to deliver services during an event
- Impact on the health care services

RIC: COUNCIL & UTILITY INFRASTRUCTURE
- Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

RIC: NATURAL ENVIRONMENT
- Damage to the natural amenity
- Loss of top soil

Summary – Recommended response & expected outcomes

1. Review the role and function of the Local Counter Disaster Committee and revise the Local Counter Disaster Plan (in keeping with the new requirements) to ensure the focus is on strategic natural (and man-made) disasters (Prevention, Preparedness, Response and Recovery), rather than responsive strategies for individual incident management through:
   a) Review of key emergency service capability and development of appropriate education/training programs;
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   e) identify extent of equipment and personnel that may be able to be used in emergency situations such as bushfires and flooding events etc (water carriers, transport, dozers and graders) in the rural home site, rural residential and rural parts of the Shire;
   f) identify key/lead agencies that contribute to the Shire disaster mitigation process and through the annual emergency planning exercise, identify gaps in service provision and develop integrated actions across the sector
   g) Develop a comprehensive public education program for key areas of risk (see also 2).

The achievement of this Action will enhance the capability of the Local Counter Disaster Committee and key stakeholders to prepare for, respond to and recover from natural disasters.
**Action (Disaster Mitigation) plan**

**Proposed actions**

1. Review current plan and outcomes of the Natural Disaster Risk Management Study
2. Develop new framework that covers the strategic issues in one document (e.g. Local Counter Disaster Committee membership, key stakeholders and delegates, roles and responsibilities, communication plan and links to a set of sub-plans that cater for the elements of Prevention, Preparedness, Response and Recovery
3. Develop a template for the sub-plan requirements
4. Incorporate requirements into the Local Counter Disaster Plan for key agencies to develop counter disaster plans and integrate these plans into the related sub-plans
5. Undertake the development of the Burdekin Evacuation Plan using this template
6. Undertake an audit of key agencies to ascertain their current plans with regard to natural disasters
7. Meet with stakeholders in second quarter 2003
8. Consult the DDC
9. Release the plan and stakeholder/community education program
10. Evaluate the plan by October 2004

**Resources required**

1. Clerical and administration time supplied by Council
2. Voluntary time of key stakeholders
3. Materials and overheads

**Responsibilities**

Local Counter Disaster Committee through CEO

**Timetable – Operational plan year & Timeframe**

1. It is intended to incorporate the program in the 2003/04 financial year/operational plan
2. Delivery of the program will occur in the latter part of the year
3. Evaluation will occur in October 2004

**Estimated cost and Possible funding source.**

Council resources (recurrent):

1. Labour - $3,000
2. Materials and overheads - $500
3. Total - $3,500 per year

**Reporting & Monitoring**

- Desk top exercise undertaken annually
- Debrief after exercise and actual event
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 2

2. Develop a comprehensive Public Education Program (including new residents, residents, tenants, schools and tourists, and rural sector members):
   a) what to do (pre event, during and post event);
   b) where to go, who to call, when to evacuate;
   c) role of emergency services (SES, Police, Fire & Rescue), for key hazards (including the development of a coordinated education plan) to ensure professional and consistent presentations;
   d) public education about clean up options prior to cyclone season;
   e) reinstate the pre-cyclone clean up of yards (fee free);
   f) identify key home based medical support equipment which may be affected by services failure (e.g. electricity) and develop resident information kits;
   g) review and adopt as appropriate, recommendations/advice incorporated into the various reports on Cyclone Aivu, that can be addressed through public education programs;
   h) identify self support education solutions (e.g. use of neighbours and relatives during emergencies inc. emergency accommodation) and incorporate outcomes into the LCDP, SOPs;
   i) examine the options to improve educational opportunities through the community FM radio station;
   j) increase community awareness about the safe use of emergency generators, impact of structural damage and fallen power lines;
   k) examine options to increase availability of emergency accommodation;
   l) provision of education to the community about bridge crossing safety;
   m) Identify early warning and remedial action strategies to support outlying communities (limited numbers of personnel) (see also 1).

RISK AREAS:
URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/slip
8. Bushfire; and

RIC: PEOPLE
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- School children/others becoming isolated
- Impact on new residents
- Inability of residents to get supplies
- Time and day of event requires consideration in terms of warning strategy
- Presence of tourists and sightseers – crowd control
- Impact on family pets
- Effluent problems of short duration
- Possibility of injury from fallen power lines and underground power
- Possibility of community members being under or un-insured (for flood)
- Destruction of personal property
- Complacency on the part of the community (“I haven’t been flooded before”)
- Road closures being ignored, endangering lives
- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
- Ability of Hospital to meet demands (incl. Mortuary)

**RIC: RESIDENTIAL**
- Damage from flying debris
- Lack of preparedness of the community
- Lack of knowledge of responsive strategies
- Impact of power loss on the disabled
- Transport needs of the frail and disabled and their carers
- Ability of the utility services to function (garbage, effluent, water and power)
- Impact of economic loss on the community and service providers post event
- Destruction of residential abode
- Requirements for emergency accommodation
- Disruption to communications
- People not willing to leave
- Theft and presence of looters
- Impact of limited insurance cover on the community
- Ability of community to use equipment/generators and like equipment
- Impact of falling powerlines and poles
- Impact of structural damage
- Loss of accommodation
- Ability of Shire to provide temporary accommodation
- Loss of access to facilities
- Impact on aged persons homes

**RIC: COMMERCIAL**
• Property damage
• Loss of trade (temporary and permanent)
• Possible closure of the business
• Loss of services
• Security of business systems
• Loss of stock
• Restocking costs
• Insurance claims and re-insurance impact – delays, costs etc
• Ability to return to business
• Short term loss of employment within the community
• Ability of the commercial business to respond during and post event
• Ability of the aged care and hostel sectors to deliver services during an event
• Impact on the health care services

RIC: COUNCIL & UTILITY INFRASTRUCTURE
• Damage to Council buildings, equipment and facilities
• Damage to Council infrastructure (roads, bridges, culverts, fences etc
• Inability of Council to meet demands for effluent, water supply and garbage services
• Failure of other Utility services

RIC: NATURAL ENVIRONMENT
• Damage to the natural amenity
• Loss of top soil

Summary – Recommended response & expected outcome

2. Develop a comprehensive Public Education Program (including new residents, residents, tenants, schools and tourists, and rural sector members):
   a) what to do (pre event, during and post event);
   b) where to go, who to call, when to evacuate;
   c) role of emergency services (SES, Police, Fire & Rescue), for key hazards (including the development of a coordinated education plan) to ensure professional and consistent presentations;
   d) public education about clean up options prior to cyclone season;
   e) reinstate the pre-cyclone clean up of yards (fee free);
   f) identify key home based medical support equipment which may be affected by services failure (e.g. electricity) and develop resident information kits;
   g) review and adopt as appropriate, recommendations/advice incorporated into the various reports on Cyclone Aivu, that can be addressed through public education programs;
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numbers of personnel) (see also 1).

The achievement of this Action will enhance the capability of the Local Counter Disaster Committee and key stakeholders to prepare for, respond to and recover from natural disasters.

<table>
<thead>
<tr>
<th>Action (Disaster Mitigation) plan</th>
<th>Proposed actions</th>
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<tbody>
<tr>
<td></td>
<td>1. Confirm the key stakeholders, issues and objectives</td>
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<td>2. Confirm status of current initiatives (SES handout, DES material, radio broadcasts, service club activity, schools etc)</td>
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<td>3. Revise the SES handout</td>
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<td>4. Develop a general information sheet on key hazards, strategies and actions</td>
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<td>5. Develop targeted communication articles during peak season for inclusion in the Council and SES publications (2-3 times per year)</td>
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<td>6. Arrange for members of the Local Counter Disaster Committee to address local service and community clubs</td>
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<td>7. Identify opportunities for education of children and young adults in local schools</td>
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<td>8. Prepare materials for review in the local libraries</td>
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<td></td>
<td>9. Contact local estate agents and ask them to provide educational material to new residents</td>
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<td></td>
<td>10. Contact local media outlets for assistance with publication and educational opportunities</td>
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<td></td>
<td>11. Provide local accommodation houses – motels, caravan parks, units, and back-packer hostels, with educational material and action plans</td>
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<td></td>
<td>12. Arrange a letter box drop of published materials</td>
</tr>
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</table>

| Resources required               |
|----------------------------------|----------------------------------------------------------------------------------|
|                                  | 1. Clerical and administration time supplied by Council                           |
|                                  | 2. Voluntary time of key stakeholders                                           |
|                                  | 3. Materials and Council overheads                                              |
|                                  | 4. Distribution costs                                                            |

| Responsibilities                 |
|----------------------------------|----------------------------------------------------------------------------------|
|                                  | • Local Counter Disaster Committee through CEO                                   |

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<td>1. Labour - $3,000</td>
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<td>2. Materials and overheads - $2,500</td>
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| Reporting & Monitoring                      |
|---------------------------------------------|-------------------------------------------------------------------|
| To be monitored and reviewed annually as part of the budget development process. | |
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 3

3. Consider an increased coordination role of Council in the resumption of key commercial services through the identification of and support for strategies that allow commercial businesses to return to normal activities (e.g. additional building surveyors and certifiers to process & assess damage/applications).

RISK AREAS:
URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
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RIC: PEOPLE
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- Impact on family pets
- Effluent problems of short duration
- Possibility of injury from fallen power lines and underground power
- Possibility of community members being under or un-insured (for flood)
- Destruction of personal property
- Complacency on the part of the community (“I haven’t been flooded before”)
- Road closures being ignored, endangering lives
- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
- Ability of Hospital to meet demands (incl. Mortuary)

**RIC: RESIDENTIAL**
- Damage from flying debris
- Lack of preparedness of the community
- Lack of knowledge of responsive strategies
- Impact of power loss on the disabled
- Transport needs of the frail and disabled and their carers
- Ability of the utility services to function (garbage, effluent, water and power)
- Impact of economic loss on the community and service providers post event
- Destruction of residential abode
- Requirements for emergency accommodation
- Disruption to communications
- People not willing to leave
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- Impact of structural damage
- Loss of accommodation
- Ability of Shire to provide temporary accommodation
- Loss of access to facilities
- Impact on aged persons homes

**RIC: COMMERCIAL**
- Property damage
- Loss of trade (temporary and permanent)
- Possible closure of the business
- Loss of services
- Security of business systems
- Loss of stock
- Restocking costs
- Insurance claims and re-insurance impact – delays, costs etc
- Ability to return to business
- Short term loss of employment within the community
- Ability of the commercial business to respond during and post event
- Ability of the aged care and hostel sectors to deliver services during an event
- Impact on the health care services
RIC: COUNCIL & UTILITY INFRASTRUCTURE

- Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

RIC: NATURAL ENVIRONMENT

- Damage to the natural amenity
- Loss of top soil

Summary – Recommended response & expected outcomes

3. Consider an increased coordination role of Council in the resumption of key commercial services through the identification of and support for strategies that allow commercial businesses to return to normal activities (e.g. additional building surveyors and certifiers to process & assess damage/applications).

The achievement of this Action will enhance the capability of the Local Counter Disaster Committee and key commercial stakeholders to prepare for, respond to and recover from natural disasters.

Action (Disaster Mitigation) plan

1. Proposed actions

- Develop and release a plan (one stop shop), that identifies key information and pro-forma to assist the commercial sector make a speedy recovery to normal services following a major natural disaster (inc. building approvals, emergency generators (safety and availability if needed), insurance and supply of materials etc). It is to be made clear that Council will provide a facilitation role only. Damage assessment and availability of emergency equipment may limit the capacity of Council to service all needs, requiring priorities to be set by the Counter Disaster Committee;
- Communicate the availability of the plan and “pack” with stakeholders.

2. Resources required

- Redirection of Council staff to service emergency needs;
- Labour and materials to prepare the “pack” and communication strategy;
- Identification of a suitable emergency “site” office.

3. Responsibilities

- Director of Development – program development
- Counter Disaster Committee – consultation, information and support;
- Director of Administrative Services – program support during emergencies;
- CEO – overall responsibility.

4. Timetable – Operational plan year & Timeframe

Plan to be finalised and released by end March 2004

5. Estimated cost and possible funding source.

Council labour and materials - $20,000 (to be reviewed after first cycle)
6. **Reporting & Monitoring**

- CEO to provide a status report to Council by end June 2004;
- Plan to be in place by August each year and reviewed annually after the Cyclone season.
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 4

4. Review and seek funding and approval for key/outstanding recommendations from (1) the Brandon Flood Study; (2) the Town of Ayr Flood Study; the Town of Home Hill Flood Study; (3) the Giru Flood Study and (4) the Burdekin Shire Storm Surge Study.

RISK AREAS:

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
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3. Flooding of the Haughton River;
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- Impact on family pets
- Effluent problems of short duration
- Possibility of injury from fallen power lines and underground power
- Possibility of community members being under or un-insured (for flood)
- Destruction of personal property
- Complacency on the part of the community (“I haven’t been flooded before”)
- Road closures being ignored, endangering lives
- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
• Panic amongst the community
• Ability of Hospital to meet demands (incl. Mortuary)

RIC: RESIDENTIAL
• Damage from flying debris
• Lack of preparedness of the community
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• Impact of structural damage
• Loss of accommodation
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• Loss of access to facilities
• Impact on aged persons homes

RIC: COMMERCIAL
• Property damage
• Loss of trade (temporary and permanent)
• Possible closure of the business
• Loss of services
• Security of business systems
• Loss of stock
• Restocking costs
• Insurance claims and re-insurance impact – delays, costs etc
• Ability to return to business
• Short term loss of employment within the community
• Ability of the commercial business to respond during and post event
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RIC: COUNCIL & UTILITY INFRASTRUCTURE
- Damage to Council buildings, equipment and facilities
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- Failure of other Utility services

RIC: NATURAL ENVIRONMENT
- Damage to the natural amenity
- Loss of top soil

Summary – Recommended response & expected outcomes
4. Review and seek funding and approval for key/outstanding recommendations from (1) the Brandon Flood Study; (2) the Town of Ayr Flood Study; the Town of Home Hill Flood Study; (3) the Giru Flood Study and (4) the Burdekin Shire Storm Surge Study.

The achievement of this Action will enhance the capability of the Local Counter Disaster Committee, key stakeholders and community to prepare for, respond to and recover from natural disasters.

Action (Disaster Mitigation) plan
1. Proposed actions
- Review all the recommendations/outstanding recommendations from each of the reports;
- Develop a staged and costed implementation plan;
- Agree actions and consider funding sources;
- Implement agreed actions within budget and timelines;
- Review outcomes against plans.

2. Resources required
- Agreed plan of action to be developed by Council officers within operational resources;
- Substantial capital funding to undertake agreed works.

3. Responsibilities
Recommendations from Director of Works and CEO to Council

4. Timetable – Operational plan year & Timeframe
Director of Works to consider priorities and prepare works program and budget for consideration and approval.

5. Estimated cost and possible funding source.
Planning: within Council resources.
Implementation: To be advised.

6. Reporting & Monitoring
- Director of Works to provide report annually as part of the annual budget cycle to Council
through the CEO;
- Evaluation of implemented actions to occur 12 months after implementation and or after each natural disaster.
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 5

5. Develop a brief and lobby/encourage Government to build a second crossing of the Burdekin River and (2) development/construction of temporary by pass arrangements during periods of bridge closure.

RISK AREAS:

URBAN & RURAL:
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RIC: NATURAL ENVIRONMENT
• Damage to the natural amenity
• Loss of top soil

Summary – Recommended response & expected outcomes

5. Develop a brief and lobby/encourage Government to build a second crossing of the Burdekin River and (2) development/construction of temporary by pass arrangements during periods of bridge closure.

The achievement of this Action will enhance the capability of the Local Counter Disaster Committee, key stakeholders and community to prepare for, respond to and recover from natural disasters.

Action (Disaster Mitigation) plan

1. Proposed actions

• Develop a second bridge strategy in conjunction with key stakeholders;
• Lobby Government(s) for the construction of a second major crossing of the Burdekin River;
• Develop a contingency plan for a (a) dry weather and (b) wet weather crossing of the Burdekin River at a suitable location, and reach agreement with the appropriate agencies about the contingency plan.

2. Resources required

• Director of Works – labour and materials to prepare a submission to DMR;
• Labour and time – Mayor, CEO and Councillors.

3. Responsibilities

Director of Works: Preparation of submission.
Mayor and CEO: Gaining support from key stakeholders

4. Timetable – Operational plan year & Timeframe

Discussion paper prepared end March 2004;
Submission prepared and agreement reached with key stakeholders & DMR by end September 2002.

5. Estimated cost and possible funding source.

Planning: labour and materials - $5,000 (Council funds);
Implementation of temporary measures: Labour and materials - $20,000 (dry weather temporary crossing – possibly recovered from DMR; wet weather crossing to be costed as part of submission preparation;
Second Bridge: - TBA
6. Reporting & Monitoring

Director of Works to update CEO end June 2004.
CEO to update Council end September 2004.
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 6

6. Develop a Shire wide alternative emergency garbage disposal system in association with Thuringowa S/TCC.

RISK AREAS:

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/slip
8. Bushfire; and

RIC: PEOPLE
- People not receiving the warning
- People not heeding the warning
- Transport needs of the frail and disabled and their carers – safe evacuation
- Impact of power loss/isolation on the disabled – medication other
- School children/others becoming isolated
- Impact on new residents
- Inability of residents to get supplies
- Time and day of event requires consideration in terms of warning strategy
- Presence of tourists and sightseers – crowd control
- Impact on family pets
- Effluent problems of short duration
- Possibility of injury from fallen power lines and underground power
- Possibility of community members being under or un-insured (for flood)
- Destruction of personal property
- Complacency on the part of the community (“I haven’t been flooded before”)
- Road closures being ignored, endangering lives
- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
• Ability of Hospital to meet demands (incl. Mortuary)

**RIC: RESIDENTIAL**
- Damage from flying debris
- Lack of preparedness of the community
- Lack of knowledge of responsive strategies
- Impact of power loss on the disabled
- Transport needs of the frail and disabled and their carers
- Ability of the utility services to function (garbage, effluent, water and power)
- Impact of economic loss on the community and service providers post event
- Destruction of residential abode
- Requirements for emergency accommodation
- Disruption to communications
- People not willing to leave
- Theft and presence of looters
- Impact of limited insurance cover on the community
- Ability of community to use equipment/generators and like equipment
- Impact of falling powerlines and poles
- Impact of structural damage
- Loss of accommodation
- Ability of Shire to provide temporary accommodation
- Loss of access to facilities
- Impact on aged persons homes

**RIC: COMMERCIAL**
- Property damage
- Loss of trade (temporary and permanent)
- Possible closure of the business
- Loss of services
- Security of business systems
- Loss of stock
- Restocking costs
- Insurance claims and re-insurance impact – delays, costs etc
- Ability to return to business
- Short term loss of employment within the community
- Ability of the commercial business to respond during and post event
- Ability of the aged care and hostel sectors to deliver services during an event
- Impact on the health care services

**RIC: COUNCIL & UTILITY INFRASTRUCTURE**
- Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

**RIC: NATURAL ENVIRONMENT**
- Damage to the natural amenity
- Loss of top soil

**Summary – Recommended response & expected outcomes**

6. Develop a Shire wide alternative emergency garbage disposal system in association with Thuringowa S/TCC.

The achievement of this Action will enhance the capability of the Local Counter Disaster Committee, key stakeholders and community to recover from natural disasters.

**Action (Disaster Mitigation) plan**

1. **Proposed actions**

   - Agree a plan of action with Thuringowa SC & Townsville City Council;
   - Consider the additional equipment and labour needs;
   - Develop a costing system to capture the additional costs;
   - Identify the mechanism for additional cost recovery.

2. **Resources required**

   - Labour and materials to prepare submission and process;
   - Possible additional equipment needs (yet to be determined);
   - An additional cost to Council until cost recovery is arranged.

3. **Responsibilities**

   Director of Works

4. **Timetable – Operational plan year & Timeframe**

   Director of Works to complete task by end December 2003

5. **Estimated cost and possible funding source.**

   - Preparation of submission - $1,000
   - Additional collection system costs - $10,000 per week.

6. **Reporting & Monitoring**

   Director of Works to inform CEO of outcomes by end June 2004.
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 7

7. Develop an emergency Council staffing service model (staff required to work in Council facilities on their home side of the River).

RISK AREAS:

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/slip;
8. Bushfire; and

RIC: PEOPLE
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- People not heeding the warning
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- Impact of power loss/isolation on the disabled – medication other
- School children/others becoming isolated
- Impact on new residents
- Inability of residents to get supplies
- Time and day of event requires consideration in terms of warning strategy
- Presence of tourists and sightseers – crowd control
- Impact on family pets
- Effluent problems of short duration
- Possibility of injury from fallen power lines and underground power
- Possibility of community members being under or un-insured (for flood)
- Destruction of personal property
- Complacency on the part of the community (“I haven’t been flooded before”)
- Road closures being ignored, endangering lives
- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
• Ability of Hospital to meet demands (incl. Mortuary)

RIC: RESIDENTIAL
• Damage from flying debris
• Lack of preparedness of the community
• Lack of knowledge of responsive strategies
• Impact of power loss on the disabled
• Transport needs of the frail and disabled and their carers
• Ability of the utility services to function (garbage, effluent, water and power)
• Impact of economic loss on the community and service providers post event
• Destruction of residential abode
• Requirements for emergency accommodation
• Disruption to communications
• People not willing to leave
• Theft and presence of looters
• Impact of limited insurance cover on the community
• Ability of community to use equipment/generators and like equipment
• Impact of falling powerlines and poles
• Impact of structural damage
• Loss of accommodation
• Ability of Shire to provide temporary accommodation
• Loss of access to facilities
• Impact on aged persons homes

RIC: COMMERCIAL
• Property damage
• Loss of trade (temporary and permanent)
• Possible closure of the business
• Loss of services
• Security of business systems
• Loss of stock
• Restocking costs
• Insurance claims and re-insurance impact – delays, costs etc
• Ability to return to business
• Short term loss of employment within the community
• Ability of the commercial business to respond during and post event
• Ability of the aged care and hostel sectors to deliver services during an event
• Impact on the health care services

RIC: COUNCIL & UTILITY INFRASTRUCTURE
• Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

**RIC: NATURAL ENVIRONMENT**
- Damage to the natural amenity
- Loss of top soil

### Summary – Recommended response & expected outcomes

7. Develop an emergency Council staffing service model (staff required to work in Council facilities on their home side of the River).

The achievement of this Action will enhance the capability of the Council to deliver services across the Shire, should access routes be cut.

### Action (Disaster Mitigation) plan

1. **Proposed actions**
   - Identification of needs
   - Identification of staff home address locations
   - Development of a plan;
   - Gain agreement with the staff and unions;
   - Implement plan when necessary.

2. **Resources required**

   Labour and materials to undertake process

3. **Responsibilities**

   Director of Works and Director of Administrative Services

4. **Timetable – Operational plan year & Timeframe**

   To be completed by end June 2004

5. **Estimated cost and possible funding source.**

   Labour and materials to develop proposal and gain agreement with stakeholders – Council operational resources

6. **Reporting & Monitoring**

   Director of Works and Director of Administrative Services by end June 2004
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 8

8. Identify utility service shortcomings and develop remedial strategies with the service providers.

RISK AREAS:

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/Slip
8. Bushfire; and

RIC: PEOPLE
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- People not heeding the warning
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- Effluent problems of short duration
- Possibility of injury from fallen power lines and underground power
- Possibility of community members being under or un-insured (for flood)
- Destruction of personal property
- Complacency on the part of the community (“I haven’t been flooded before”)
- Road closures being ignored, endangering lives
- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
- Ability of Hospital to meet demands (incl. Mortuary)
RIC: RESIDENTIAL
- Damage from flying debris
- Lack of preparedness of the community
- Lack of knowledge of responsive strategies
- Impact of power loss on the disabled
- Transport needs of the frail and disabled and their carers
- Ability of the utility services to function (garbage, effluent, water and power)
- Impact of economic loss on the community and service providers post event
- Destruction of residential abode
- Requirements for emergency accommodation
- Disruption to communications
- People not willing to leave
- Theft and presence of looters
- Impact of limited insurance cover on the community
- Ability of community to use equipment/generators and like equipment
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- Impact of structural damage
- Loss of accommodation
- Ability of Shire to provide temporary accommodation
- Loss of access to facilities
- Impact on aged persons homes

RIC: COMMERCIAL
- Property damage
- Loss of trade (temporary and permanent)
- Possible closure of the business
- Loss of services
- Security of business systems
- Loss of stock
- Restocking costs
- Insurance claims and re-insurance impact – delays, costs etc
- Ability to return to business
- Short term loss of employment within the community
- Ability of the commercial business to respond during and post event
- Ability of the aged care and hostel sectors to deliver services during an event
- Impact on the health care services

RIC: COUNCIL & UTILITY INFRASTRUCTURE
- Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

**RIC: NATURAL ENVIRONMENT**
- Damage to the natural amenity
- Loss of top soil

### Summary – Recommended response & expected outcomes
8. Identify utility service shortcomings and develop remedial strategies with the service providers.

The achievement of this Action will enhance the capability of the Council to deliver services across the Shire, should access routes be cut.

### Action (Disaster Mitigation) plan

#### 1. Proposed actions
- Identify critical electricity services/facilities that are inadequate/fail during critical events (particularly where underground power would reduce risks of power outage);
- Prepare a submission and discuss Council’s concerns with the service provider;
- Encourage the service provider to undertake priority works before the 2003/4 cyclone season.

#### 2. Resources required
Labour and materials to undertake the review and prepare the submission.

#### 3. Responsibilities
- Director of Works to undertake review and prepare the submission;
- CEO and Councillors to undertake a lobbying role.

#### 4. Timetable – Operational plan year & Timeframe
Update to be provided by end December 200

#### 5. Estimated cost and possible funding source.
Minimal – labour and materials – Council funds for Planning purposes
Utility Service providers costs: TBA

#### 6. Reporting & Monitoring
Update to be provided to CEO by Director of Works by end December 2003.
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 9

9. Review and update the Evacuation & Recovery Plan (under the LCDP), evaluate needs and capacity of evacuation centres and develop a response and coordinated plan in association with welfare agencies with specific attention to the suitability and appropriateness of, Dalbeg and Millaroo community halls for emergency accommodation (see also Action 1, 2, 4 & 7).

RISK AREAS:

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
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- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
- Ability of Hospital to meet demands (incl. Mortuary)

**RIC: RESIDENTIAL**
- Damage from flying debris
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**RIC: COMMERCIAL**
- Property damage
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- Impact on the health care services

**RIC: COUNCIL & UTILITY INFRASTRUCTURE**
- Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

**RIC: NATURAL ENVIRONMENT**
- Damage to the natural amenity
- Loss of top soil

### Summary – Recommended response & expected outcomes

9. Review and update the Evacuation & Recovery Plan (under the LCDP), evaluate needs and capacity of evacuation centres and develop a response and coordinated plan in association with welfare agencies with specific attention to the suitability and appropriateness of, Dalbeg and Millaroo community halls for emergency accommodation (see also Action 1, 2, 4 & 7).

The achievement of this Action will enhance the capability of the Local Counter Disaster Committee and Council to deliver safe evacuation services to community members in these areas.

### Action (Disaster Mitigation) plan

#### 1. Proposed actions

- (1) Undertake the evaluation and provide a report with recommendations, budget and action plan;
- (2) Undertake approved works.

#### 2. Resources required

(1) Labour and materials to undertake review and write report ($6,000);
(2) Cost of approved works to be determined.

#### 3. Responsibilities

- Director of Works;
- Counter Disaster Committee (SES).

#### 4. Timetable – Operational plan year & Timeframe

- Report to be provided in time for consideration at the 2003/04 operational and capital works budget cycle;
- Approved works will be undertaken on a priority basis as funding is identified.

#### 5. Estimated cost and possible funding source.

**Planning**: $6,000 – Council funds;
**Implementation**: $250,000 – Source of funding yet to be determined.

#### 6. Reporting & Monitoring

Director of Works to keep Council informed annually.
10. Evaluate and if feasible, develop Mt Kelly water supply.

**RISK AREAS:**

**URBAN & RURAL:**
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/slip
8. Bushfire; and

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- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
- Ability of Hospital to meet demands (incl. Mortuary)
RIC: RESIDENTIAL
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- Ability of community to use equipment/generators and like equipment
- Impact of falling powerlines and poles
- Impact of structural damage
- Loss of accommodation
- Ability of Shire to provide temporary accommodation
- Loss of access to facilities
- Impact on aged persons homes

RIC: COMMERCIAL
- Property damage
- Loss of trade (temporary and permanent)
- Possible closure of the business
- Loss of services
- Security of business systems
- Loss of stock
- Restocking costs
- Insurance claims and re-insurance impact – delays, costs etc
- Ability to return to business
- Short term loss of employment within the community
- Ability of the commercial business to respond during and post event
- Ability of the aged care and hostel sectors to deliver services during an event
- Impact on the health care services

RIC: COUNCIL & UTILITY INFRASTRUCTURE
- Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

**RIC: NATURAL ENVIRONMENT**
- Damage to the natural amenity
- Loss of top soil

<table>
<thead>
<tr>
<th>Summary – Recommended response &amp; expected outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>10. Evaluate and if feasible, develop Mt Kelly water supply.</td>
</tr>
<tr>
<td>The achievement of this Action will enhance the capability of the Council to deliver safe preventative, response and recovery services to community members in the Shire.</td>
</tr>
</tbody>
</table>

**Action (Disaster Mitigation) plan**

1. **Proposed actions**
   - Undertake a review of the status of the mains and system as a whole;
   - Undertake maintenance as required to maintain the integrity of the system

2. **Resources required**
   - Labour and materials to undertake review;
   - Work gang to undertake repairs.

3. **Responsibilities**
   Director of Development

4. **Timetable – Operational plan year & Timeframe**
   - Review completed by end March 2004;
   - Works completed by end December 2004;
   - To be included in annual maintenance review program.

5. **Estimated cost and possible funding source.**
   **Evaluation & Review:** Labour and materials - $5,000 – Council funds.
   **Implementation:** TBA.

6. **Reporting & Monitoring**
   Director of Development to report by end of June 2004.
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 11

11. Support the Haughton River Trust to develop solutions and future studies for the effects of river flooding (see also Giru Flood Study – Action 4).

RISK AREAS:

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/slip
8. Bushfire; and

RIC: PEOPLE

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- Destruction of personal property
- Complacency on the part of the community ("I haven’t been flooded before")
- Road closures being ignored, endangering lives
- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
- Ability of Hospital to meet demands (incl. Mortuary)

**RIC: RESIDENTIAL**
- Damage from flying debris
- Lack of preparedness of the community
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- Disruption to communications
- People not willing to leave
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- Impact of structural damage
- Loss of accommodation
- Ability of Shire to provide temporary accommodation
- Loss of access to facilities
- Impact on aged persons homes

**RIC: COMMERCIAL**
- Property damage
- Loss of trade (temporary and permanent)
- Possible closure of the business
- Loss of services
- Security of business systems
- Loss of stock
- Restocking costs
- Insurance claims and re-insurance impact – delays, costs etc
- Ability to return to business
- Short term loss of employment within the community
- Ability of the commercial business to respond during and post event
- Ability of the aged care and hostel sectors to deliver services during an event
- Impact on the health care services

**RIC: COUNCIL & UTILITY INFRASTRUCTURE**
- Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

RIC: NATURAL ENVIRONMENT
- Damage to the natural amenity
- Loss of top soil

**Summary – Recommended response & expected outcomes**

11. Support the Haughton River Trust to develop solutions and future studies for the effects of river flooding (see also Giru Flood Study – Action 4).

The achievement of this Action will enhance the capability of the Council to provide for the safety of the community in and around the Haughton River catchment.

**Action (Disaster Mitigation) plan**

1. **Proposed actions**

   Continue to support and encourage the River Trusts to maintain the integrity of the Riverbanks.

2. **Resources required**

   Minimal.

3. **Responsibilities**

   Mayor and CEO;
   Director Development.

4. **Timetable – Operational plan year & Timeframe**

   Ongoing.

5. **Estimated cost and possible funding source.**

   Minimal – labour/time of CEO, Councillors and senior staff as required – Council funds.

6. **Reporting & Monitoring**

   Mayor and CEO to Council annually.
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 12

12. Develop an alternative strategy for emergency waste removal – inability to access to the Giru transfer station (Donohue Road).

RISK AREAS:

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/slip
8. Bushfire; and

RIC:  PEOPLE
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- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
• Panic amongst the community
• Ability of Hospital to meet demands (incl. Mortuary)

**RIC: RESIDENTIAL**
• Damage from flying debris
• Lack of preparedness of the community
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• Impact of falling powerlines and poles
• Impact of structural damage
• Loss of accommodation
• Ability of Shire to provide temporary accommodation
• Loss of access to facilities
• Impact on aged persons homes

**RIC: COMMERCIAL**
• Property damage
• Loss of trade (temporary and permanent)
• Possible closure of the business
• Loss of services
• Security of business systems
• Loss of stock
• Restocking costs
• Insurance claims and re-insurance impact – delays, costs etc
• Ability to return to business
• Short term loss of employment within the community
• Ability of the commercial business to respond during and post event
• Ability of the aged care and hostel sectors to deliver services during an event
• Impact on the health care services

**RIC: COUNCIL & UTILITY INFRASTRUCTURE**
- Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

**RIC: NATURAL ENVIRONMENT**
- Damage to the natural amenity
- Loss of top soil

### Summary – Recommended response & expected outcomes

12. Develop an alternative strategy for emergency waste removal – inability to access to the Giru transfer station (Donohue Road).

The achievement of this Action will enhance the capability of the Council to provide for the safety of the community in and around the Haughton River catchment.

#### Action (Disaster Mitigation) plan

<p>| | |</p>
<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Proposed actions</strong></td>
</tr>
<tr>
<td></td>
<td>Upgrade the road to the transfer station at Giru.</td>
</tr>
<tr>
<td>2.</td>
<td><strong>Resources required</strong></td>
</tr>
<tr>
<td></td>
<td>Estimated funding to complete task - $100,000.</td>
</tr>
<tr>
<td>3.</td>
<td><strong>Responsibilities</strong></td>
</tr>
<tr>
<td></td>
<td>Director of Works.</td>
</tr>
<tr>
<td>4.</td>
<td><strong>Timetable – Operational plan year &amp; Timeframe</strong></td>
</tr>
<tr>
<td></td>
<td>Include works in 2004/5 capital works program.</td>
</tr>
<tr>
<td>5.</td>
<td><strong>Estimated cost and possible funding source.</strong></td>
</tr>
<tr>
<td></td>
<td>$100,000 – Capital works program 2004/5, unless alternative funding is found earlier.</td>
</tr>
<tr>
<td>6.</td>
<td><strong>Reporting &amp; Monitoring</strong></td>
</tr>
<tr>
<td></td>
<td>Director of Works to keep Council informed through annual planning process.</td>
</tr>
</tbody>
</table>
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 13

13. In conjunction with the Water Trust and SunWater, review the Water Resources Burdekin Falls Dam Emergency Action plan as it affects the Shire.

RISK AREAS:

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/slip
8. Bushfire; and

RIC: PEOPLE
- People not receiving the warning
- People not heeding the warning
- Transport needs of the frail and disabled and their carers – safe evacuation
- Impact of power loss/isolation on the disabled – medication other
- School children/others becoming isolated
- Impact on new residents
- Inability of residents to get supplies
- Time and day of event requires consideration in terms of warning strategy
- Presence of tourists and sightseers – crowd control
- Impact on family pets
- Effluent problems of short duration
- Possibility of injury from fallen power lines and underground power
- Possibility of community members being under or un-insured (for flood)
- Destruction of personal property
- Complacency on the part of the community (“I haven’t been flooded before”)
- Road closures being ignored, endangering lives
- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
- Ability of Hospital to meet demands (incl. Mortuary)

**RIC: RESIDENTIAL**
- Damage from flying debris
- Lack of preparedness of the community
- Lack of knowledge of responsive strategies
- Impact of power loss on the disabled
- Transport needs of the frail and disabled and their carers
- Ability of the utility services to function (garbage, effluent, water and power)
- Impact of economic loss on the community and service providers post event
- Destruction of residential abode
- Requirements for emergency accommodation
- Disruption to communications
- People not willing to leave
- Theft and presence of looters
- Impact of limited insurance cover on the community
- Ability of community to use equipment/generators and like equipment
- Impact of falling powerlines and poles
- Impact of structural damage
- Loss of accommodation
- Ability of Shire to provide temporary accommodation
- Loss of access to facilities
- Impact on aged persons homes

**RIC: COMMERCIAL**
- Property damage
- Loss of trade (temporary and permanent)
- Possible closure of the business
- Loss of services
- Security of business systems
- Loss of stock
- Restocking costs
- Insurance claims and re-insurance impact – delays, costs etc
- Ability to return to business
- Short term loss of employment within the community
- Ability of the commercial business to respond during and post event
- Ability of the aged care and hostel sectors to deliver services during an event
- Impact on the health care services

**RIC: COUNCIL & UTILITY INFRASTRUCTURE**
• Damage to Council buildings, equipment and facilities
• Damage to Council infrastructure (roads, bridges, culverts, fences etc)
• Inability of Council to meet demands for effluent, water supply and garbage services
• Failure of other Utility services

**RIC: NATURAL ENVIRONMENT**

• Damage to the natural amenity
• Loss of top soil

**Summary – Recommended response & expected outcomes**

13. In conjunction with the Water Trust and SunWater, review the Water Resources Burdekin Falls Dam Emergency Action plan as it affects the Shire.

The achievement of this Action will enhance the capability of the Council to provide for the safety of the community in and around the Burdekin River, below the Dam.

**Action (Disaster Mitigation) plan**

1. **Proposed actions**

• Ensure agreements and actions discussed at a meeting held 30 October 2001, conveyed in writing by the Council’s CEO to SunWater, 31 October 2001, are completed.

2. **Resources required**

   Minimal labour and materials.

3. **Responsibilities**

   Director of Works and CEO.

4. **Timetable – Operational plan year & Timeframe**

   Actions to be reviewed by Director of Works by end December 2003 and reported to CEO.

5. **Estimated cost and possible funding source.**

   Minimal – Council funds (for Council related costs).

6. **Reporting & Monitoring**

   Actions to be reviewed by Director of Works by end December 2003 and reported to CEO.
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 14

14. Development of a risk based annual asset management operational plan for timber bridge, culvert and drain maintenance/replacement that is consistent with the identified areas of risk identified in this Study and longer term requirements of the Shire.

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
2. Flooding of the Burdekin River;
3. Flooding of the Haughton River;
4. Burdekin River Bridge Closures;
5. Major Localised Flooding (not covered above, for Ayr, Home Hill and Brandon);
6. Coastal Storm Surge;
7. Landslide/slip
8. Bushfire; and

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- Road closures being ignored, endangering lives
- Injury to members of the community and emergency personnel
- Emergency accommodation limitations
- Disease/presence of debris (garbage and other litter)
- Panic amongst the community
- Ability of Hospital to meet demands (incl. Mortuary)

**RIC: RESIDENTIAL**
- Damage from flying debris
- Lack of preparedness of the community
- Lack of knowledge of responsive strategies
- Impact of power loss on the disabled
- Transport needs of the frail and disabled and their carers
- Ability of the utility services to function (garbage, effluent, water and power)
- Impact of economic loss on the community and service providers post event
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- Disruption to communications
- People not willing to leave
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- Ability of Shire to provide temporary accommodation
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**RIC: COMMERCIAL**
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- Impact on the health care services

**RIC: COUNCIL & UTILITY INFRASTRUCTURE**
- Damage to Council buildings, equipment and facilities
- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

**RIC: NATURAL ENVIRONMENT**
- Damage to the natural amenity
- Loss of top soil

**Summary – Recommended response & expected outcomes**

14. Development of a risk based annual asset management operational plan for timber bridge, culvert and drain maintenance/replacement that is consistent with the identified areas of risk identified in this Study and longer term requirements of the Shire.

Implementation of a risk based system will greatly reduce potential loss of life/injury and potentially save loss of assets.

**Action (Disaster Mitigation) plan**

1. **Proposed actions**
   1. Identify sites and undertake a risk assessment
   2. Consult DMR (if necessary)
   3. Identify priority, project and material needs
   4. Incorporate priority projects into capital works/budget program
   5. Evaluate program annually

2. **Resources required**

   Initial Planning: will occur within current Council resources;
   Initiating of works program: will occur subject to availability of resources/priorities.

3. **Responsibilities**

   Director of Works.

4. **Timetable – Operational plan year & Timeframe**

   **Planning:** annually by 30 September
   **Implementation:** Will occur annually subject to availability of funding

5. **Estimated cost and possible funding source.**

   The actual allocation will be determined by Council subject to the availability of funds and other priorities.

6. **Reporting & Monitoring**

   Annually as part of the budget development process.
URBAN & RURAL

RISK MITIGATION ACTION PLAN – ACTION NUMBER: 15

15. Identify and consult with DMR about roads and infrastructure that are the responsibility of DMR that are affected by significant flooding events using a risk based assessment process, as part of the annual performance agreement process.

URBAN & RURAL:
1. Cyclones (Category 1 – 5);
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3. Flooding of the Haughton River;
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**RIC: RESIDENTIAL**

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• Impact on the health care services

**RIC: COUNCIL & UTILITY INFRASTRUCTURE**

• Damage to Council buildings, equipment and facilities
 Burdekin Shire Council  
Natural Disaster Risk Management Study

- Damage to Council infrastructure (roads, bridges, culverts, fences etc)
- Inability of Council to meet demands for effluent, water supply and garbage services
- Failure of other Utility services

**RIC: NATURAL ENVIRONMENT**

- Damage to the natural amenity
- Loss of top soil

### Summary – Recommended response & expected outcomes

15. Identify and consult with DMR about roads and infrastructure that are the responsibility of DMR that are affected by significant flooding events using a risk based assessment process, as part of the annual performance agreement process.

Implementation of a risk based system will greatly reduce potential loss of life/injury and potentially save loss of assets.

### Action (Disaster Mitigation) plan

#### 1. Proposed actions

1. Evaluate current delineation of responsibilities, including review of the Road Maintenance Performance Contract (RMPC)
2. Identify sites on a risk based assessment
3. Consult DMR
4. Prepare briefing paper for DMR
5. Implement approved program
6. Evaluate outcomes

#### 2. Resources required

1. Site inspection, clerical and administration time supplied by Council
2. Voluntary time of key stakeholders
3. Materials and overheads

#### 3. Responsibilities

Director of Works.

#### 4. Timetable – Operational plan year & Timeframe

1. Undertake site review annually before commencement of negotiations with DMR by 30 December 2003 and annually thereafter
2. Consultation and proposal development process to occur thereafter
3. Evaluate outcomes annually

#### 5. Estimated cost and possible funding source.

**Planning:** Council funds.  
**Implementation:** to be funded by DMR as agreed.

#### 6. Reporting & Monitoring

Project to be evaluated 12 months after agreed action plan (with DMR) and after first major event affecting refurbished sites.