



Maranboy Local Emergency Plan



**Northern Territory
Emergency Service**

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1. Document control

1.1. Governance

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1.2. Version history

Date	Version	Author	Summary of changes
16/11/2014	1	John McRoberts	First version
27/10/2015	2	Reece Kershaw	Reviewed and updated
30/12/2016	3	Kate Vanderlaan	Reviewed and updated
16/03/2018	4	Grant Nicholls	Reviewed and updated
28/11/2018	5	Travis Wurst	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
20/01/2020	6	Michael Hebb	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
17/11/2020	7	Travis Wurst	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
02/11/2021	8	Martin Dole	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate
20/06/2023	9	Travis Wurst	Reviewed and endorsed by the Regional Controller, as the Territory Controller's delegate

Disclaimer: Every effort has been made to ensure that the information contained within this plan is accurate and where possible reflects current best practice. However, the Northern Territory Emergency Service does not give any warranty or accept any liability in relation to the content of material contained in the document.

2. Acknowledgement of Country

The Northern Territory Police, Fire and Emergency Services acknowledges the First Nations people throughout the Northern Territory, from the red sands of Central Australia to the coastal people in the Top End.

We recognise their continuing connection to their lands, waters and culture. We also pay our respects to the Aboriginal and Torres Strait Islander people with whom we work and who we serve and protect.

We pay our respects to the Aboriginal and Torres Strait Islander cultures, and to their leaders past, present and emerging.

3. Introduction

3.1. Purpose

The purpose of this Plan is to describe the emergency management arrangements for Maranboy Locality (the Locality).

3.2. Application

This Plan applies to the Maranboy Locality.

3.3. Key considerations

The *Emergency Management Act 2013* (the Act) is the legislative basis for emergency management across the Northern Territory (NT). The Act reflects an all hazards approach to emergency and disaster events, natural or otherwise. It provides for the adoption of measures necessary for the protection of life and property from the effects of such events.

The Act defines the emergency management structures, roles and responsibilities for the NT and, in conjunction with the Territory and regional emergency plan(s), form the basis for this Plan.

This Plan:

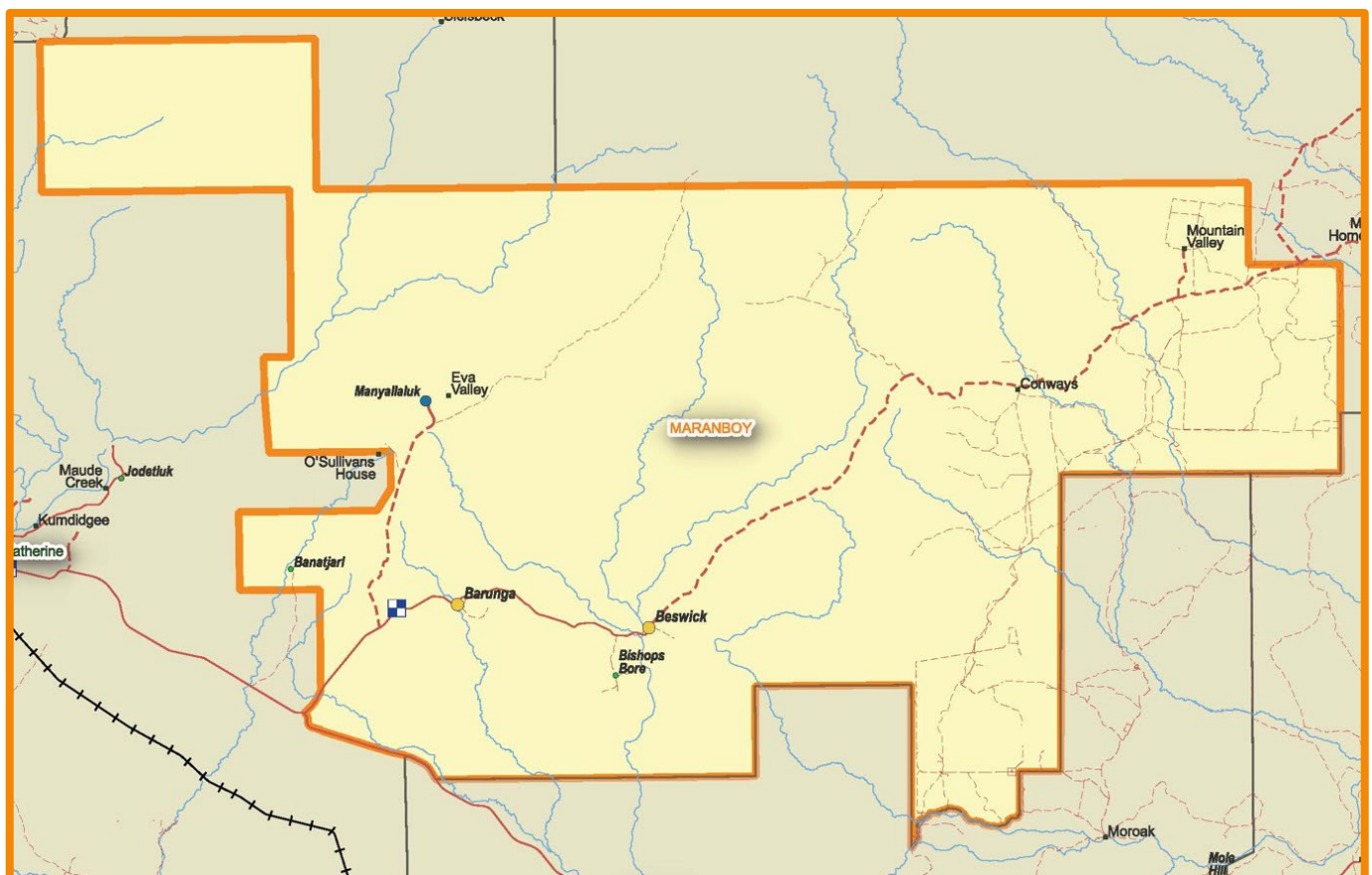
- confirms appointment of a Local Emergency Controller
- confirms establishment of the Local Emergency Committee (LEC)
- assesses hazards most likely to affect the community
- specifies control and coordination arrangements for mobilisation of local and, if necessary regional, resources
- identifies roles and responsibilities of key stakeholders
- details specific emergency response procedures for the higher risk situations.

4. Locality context

This Plan complements the Northern Regional Emergency Plan¹ as it relates to the Locality. For further information on the hierarchy of plans, refer to the Territory Emergency Plan². The Locality covers approximately 21,500 square kilometres (km) and is located approximately 400 km south east of Darwin and forms part of the Northern Region, as defined by the Territory Emergency Plan.

The population of the Locality is approximately 1,000, with the main population centres of Barunga and Beswick, (also known as Wugularr), as well as Manyallaluk (Eva Valley).

The communities of Barunga and Beswick are located on the Central Arnhem Road, (also known as the Central Arnhem Highway), some 80 to 100 km from Katherine. Sporadic severe flooding during the Wet Season makes the road inaccessible.



¹ More information can be found at: <https://www.pfes.nt.gov.au/emergency-service/publications>

² More information can be found at: <https://www.pfes.nt.gov.au/emergency-service/emergency-management>

4.1. Climate and weather

The Locality is situated in the Top End and experiences weather conditions typical to those of the region. There is a distinct Wet Season (November to April) and Dry Season (May to October).

4.2. Geography

The Locality ranges from rocky, sparsely vegetated, and semi-arid to thickly timbered, dense scrubby areas, well-watered by creeks and springs. Cattle stations take up about 30% of the Locality.

The Locality is drained by a number of rivers and creeks, the main being:

- Beswick Creek
- Little Roper Creek
- Dook Creek
- Chambers River
- Maranboy Creek
- Flying Fox Creek
- Waterhouse River.

4.3. Sacred sites

The Aboriginal Areas Protection Authority (AAPA) is a statutory body established under the *Northern Territory Aboriginal Sacred Sites Act 1989* and is responsible for overseeing the protection of Aboriginal sacred sites on land and sea across the NT.

A sacred site is defined by the *Aboriginal Land Rights (Northern Territory) Act 1978 (Cth)* as being 'a site that is sacred to Aboriginals or is otherwise of significance according to Aboriginal tradition'. Sacred sites are typically landscape features or water places that are enlivened by the traditional narratives of Aboriginal people.

AAPA requests notification of any action that may have affected a sacred site.

For more information on sacred sites relevant to this Locality, or to report an action that may have affected a sacred site, contact AAPA on (08) 8999 4365 or via email at enquiries.aapa@nt.gov.au.

4.4. Sites of conservation

For further information about sites of conservation, contact the Department of Environment, Parks and Water Security³ (DEPWS).

4.5. Tourism

Tourism is a major economic contributor to the Locality, particularly throughout the months of May to October. A key annual event in the Locality is the Barunga Festival.

4.6. NT and local government

In March 2019, NT Government (NTG) implemented 6 regional boundaries across the NT to strengthen the role of the Regional Network Group and align service delivery and reporting. This Locality sits within the Top End Boundary.

NTG agencies that have a presence in the Locality include:

- NT Police, Fire and Emergency Services (NTPFES)

³ More information can be found at: <https://nt.gov.au/environment/environment-data-maps/important-biodiversity-conservation-sites/conservation-significance-list>

- NT Police Force (NTPF) (Maranboy Police Station)
- Department of Health (DoH)
 - Sunrise Health Clinic - Beswick (Wulgularr)
 - Sunrise Health Clinic - Barunga
 - Sunrise Health Clinic - Eva Valley (Manyallaluk)
- Department of Education (DoE)
 - Beswick School
 - Barunga Community Education Centre
 - Manyallaluk School.

Local government in the Locality is provided by the Roper Gulf Regional Council (RGRC).

4.7. Building codes

Buildings and construction in the Locality are subject to the *Building Act 1993* and the *Building Regulations 1993*.

4.8. Land use

The Locality's land use is in consultation between RGRC and Traditional Owners and includes infrastructure in the areas of:

- pastoral
- residential
- sewerage ponds
- air strip
- waste management.

4.9. Power generation and distribution

Power to the Locality is sourced from Katherine via the Katherine Power Station. Eva Valley has its own diesel generators. The police station operates on both gas and diesel generators.

4.10. Water services

The Locality operates reticulated water and sewer systems in Manyallaluk (Eva Valley), Beswick and Barunga. Water is sourced from bores.

4.11. Health infrastructure

Through the 3 Sunrise Health clinics in Eva Valley, Beswick and Barunga, which have the capacity to provide to emergency medical aid in addition to routine health treatment.

Serious medical cases are required to be medical evacuated to Darwin or Katherine.

4.12. Emergency service infrastructure

The Locality has the following emergency service infrastructure:

- police station and cells.

4.13. Roads

The Locality has one main road, the Central Arnhem Road, (also known as the Central Arnhem Highway). This road is completely unsealed 10 km past the Beswick Community, and becomes impassable at times during the Wet Season. There are many tracks that branch off this main road going to various outstations.

4.14. Airports

The table below lists the airstrips in the Locality:

Name of the strip	Datum	Details (type, length, etc.)	Operator of the strip
Barunga (Banyilli)	14°31'3.68"S 132°52'46.39"E	Gravel and Clay 794 m	RGRC
Eva Valley	14°16'1.01"S 132°49'54.92"E	Gravel	RGRC
Mountain Valley	14°5'1.90"S 133°48'41.20"E	Grass 900 m x 99 m	RGRC

4.15. Telecommunication

Telecommunications are available across the Locality via a combination of landline, mobile and satellite communications delivery. There is also mobile service at Eva Valley.

4.16. Local radio stations

The Locality has the following radio stations:

- 101.7 FM (TEABBA)
- 106.1 FM ABC Radio
- 98.5 FM (Barunga)

4.17. Medically vulnerable clients

A list of all vulnerable medical patients is held with the manager of the Sunrise Health Clinics within the Locality.

There is one aged care facility in the Locality located in the Beswick Community managed by the RGRC.

5. Prevention

5.1. Emergency risk assessments

The Maranboy LEC is responsible for undertaking appropriate activities to prevent and mitigate the impact of emergencies in their Locality.

5.2. Disaster hazard analysis and risk register

The LEC has identified the following hazards for the Locality:

- air crash
- fire
- flood
- hazardous material
- road crash.

These hazards have been rated against the National Disaster Risk Assessment Guidelines (NERAG):

Hazard	Overall consequence	Overall likelihood	Risk rating
Air crash	Minor	Rare	Low
Fire	Minor	Likely	Medium
Flood	Moderate	Likely	High
Hazardous material	Minor	Likely	Medium
Road crash	Minor	Likely	Medium

5.3. Hazard specific prevention and mitigation strategies

Prevention and mitigation relates to measures to reduce exposure to hazards, and reduce or eliminate risk. Actions include identifying hazards, assessing threats to life and property, and from these activities, taking measures to reduce potential loss of life and property damage.

The cornerstone of mitigation is guided and coordinated risk assessments, which should involve all potentially affected members of a community. Strategies are developed based on a thorough understanding of hazards identified in emergency risk planning and their interaction with all aspects of society.

Specific prevention and mitigation strategies for identified hazards can be found at **Annex C**.

6. Preparedness

Arrangements to ensure that, should an emergency occur, all resources and services that are needed to provide an emergency response and or recovery can be efficiently mobilised and deployed.

6.1. Planning

NT emergency plans⁴ are required by the Act and are maintained at a Territory, regional and local level. Arrangements in plans aim to be flexible and scalable for all hazards. The Planning process enables agreements to be reached between people and organisations in meeting communities' needs during emergencies. The Plan becomes a record of the agreements made by contributing organisations to accept roles and responsibilities, provide resources and work cooperatively.

The LEC is responsible for the annual review of operations and the effectiveness of the Local Emergency Plan, supported by the NT Emergency Service (NTES) Planning and Preparedness Command.

6.2. Emergency resources and contacts

The LEC is responsible for maintaining the emergency resource register and LEC contact list. Local emergency management stakeholders are to advise the Local Controller of changes to resource holdings, operational response capabilities and key personnel contacts. Emergency resource and LEC contact list for each locality are available on the Web-based Emergency Operations Centre (WebEOC).

6.3. Training and education

The Act provides the legislative requirement for those involved in emergency management activities to be appropriately trained. Training and education activities are undertaken to ensure agencies are familiar with and understand the NT emergency management arrangements, as well as the relevant controlling and hazard management authorities for identified hazards.

The NTES Learning and Development Command is responsible for emergency management training across the NT. Online and face to face training is scheduled throughout the year.

6.4. Community education and awareness

Effective and ongoing community education and preparedness programs that emphasise to communities the importance of practical and tested emergency plans and safety strategies is essential. Empowering communities to act in a timely and safe manner will minimise the loss of life, personal injury and damage to property and contribute to the effectiveness of any warning system.

List of available activities and initiatives in the area:

- NTES hazard briefings
- NTES Paddy Program
- NT Fire and Rescue Service (NTFRS) Smart Sparx Program
- Red Cross Pillowcase Program
- St Johns Ambulance First Aid in Schools Program
- CareFlight Advanced First Aid.

6.5. Exercises

Local level exercises are a key measure for testing the effectiveness of the local emergency plan and should involve all relevant stakeholders. Exercises ensure that the plan is robust and understood, and

⁴ More information can be found at: <https://pfes.nt.gov.au/emergency-service/publications>

that capabilities and resources are adequate. Exercises are conducted if the plan has not been enacted since the last review, or substantial changes have occurred, including:

- legislative changes
- major changes have occurred in the areas of key personnel, positions or functions across prevention, preparedness, response and recovery
- new or emerging hazards/risks have been identified.

The NTES Planning and Preparedness Command have developed resources that outlines the process to develop the exercise concept in designing, planning, conducting, facilitating, participating or evaluating exercises.

7. Response

Actions taken in anticipation of, during and immediately after an emergency to ensure that its effects are minimised and that people affected are given immediate relief and support.

7.1. Control and coordination

Arrangements for response are based on pre-agreed roles and responsibilities for stakeholders. When the scale and complexity of an event is such that resources of the community are depleted a number of arrangements are in place for assistance from the region, the Territory and/or the Australian Government. Pathway for assistance is through the Regional Controller.

7.2. Local Emergency Controller

In accordance with section 76 of the Act, the Territory Controller or their delegate (section 112 of the Act) has appointed a Local Emergency Controller (Local Controller). The Local Controller is the OIC of Maranboy Police Station. The Local Controller is subject to the directions of the Regional Controller. The powers, functions and directions of the Local Controller can be found in sections 77, 78 and 79 of the Act.

7.3. Local Emergency Committee

In accordance with section 80 of the Act, the Territory Controller has established a Maranboy Local Emergency Committee (LEC). The Local Controller is Chair of the LEC and remaining membership consists of representatives from NT Government and non-government entities within the Locality. Division 11 of the Act specifies the establishment, functions, powers, membership and procedure requirements of a LEC.

7.4. Emergency Operations Centre/Local Coordination Centre

NT Emergency Management Arrangements	Controlling Authority Arrangements
Emergency Operations Centre (EOC) (Territory and Regional level)	Incident Control Centre (ICC)
Local Coordination Centre (LCC) (local level)	Incident Control Point (ICP)

LCCs will be established as required by Local Controllers to provide a central focus to the management, control and coordination of emergency operations in the Locality. When activated, the functions of the LCCs are:

- information collection and dissemination
- preparation and issue of official warnings and advice to the public
- coordination of the provision of resources required in the Locality
- submitting requests for resources through the Regional Controller to the Territory EOC where applicable

- dissemination of information to the media and general public.

The LCC for this Locality is the Maranboy Police Station. The Regional EOC will be located in Darwin at the Peter McAulay Centre. Agencies and functional groups may establish their own coordination centres to provide the focal point for the overall control and coordination of their own agency resources. Liaison officers from functional groups and support agencies will attend the EOC as required.

ICCs will be established as required by a Controlling Authority to provide an identified facility for the management of all activities necessary for the resolution of an incident.

An ICP is normally located near the incident in its early stages but may be relocated to an ICC where more permanent and convenient facilities and services are available.

7.5. WebEOC

WebEOC is a critical information management system used throughout the NT for emergency management activities. The system is owned and maintained by NTPFES. The online platform is used for the coordination of multi-agency response to, and recovery from, an emergency event. WebEOC also enables real-time information sharing across all NTG agencies involved in emergency management activities.

7.6. Situation reports

It is essential for effective control and coordination of emergency management operations that the Local Controller is able to gather and collate relevant information relating to the emergency from regular, concise and accurate situation reports (SITREPs).

LEC members are to provide SITREPs at agreed times to enable the preparation of a consolidated report which will be distributed to all committee members and other relevant authorities. This may be achieved through WebEOC.

7.7. Activation of the Plan

This plan has 5 stages of activation. These stages are designed to ensure a graduated response to hazardous events, thereby reducing the possibility of under or over reaction by the emergency management agency. The stages are:

Stage 1	Alert	This stage is declared when the Local Controller receives warning of an event which, in their opinion, may necessitate an emergency management response
Stage 2	Standby	This stage is declared when the Local Controller considers an emergency operation is imminent. During this stage passive emergency measures are commenced
Stage 3	Activation	This stage is declared when active emergency measures are required
Stage 4	Stand-down response operations and transition to Recovery	Stage 4 occurs when the Local Controller and Local Recovery Coordinator agree to transition to recovery (if required) in accordance with the transitional arrangements of this Plan
Stage 5	Recovery	This stage is called if ongoing recovery operations and coordination is required

The stages identified provide for a sequential response. However, it may be necessary because of the degree of warning and speed of onset of an event, for the Local Controller to skip the actions required under stage 1 or 2.

7.8. Stakeholder notifications

Upon activation of the Plan the following personnel are to be advised as a matter of urgency:

- all available members of the LEC
- Northern Regional Controller
- NTES Territory Duty Officer (TDO).

7.9. Official warnings and general public information

Official warnings and general public information will be broadcast to the Locality through the following means:

- radio broadcast
- television news broadcast
- SecureNT website and social media broadcasts and updates

Official warnings are issued by the Bureau of Meteorology (the Bureau), Geoscience Australia, Bushfires NT (BFNT) and the NTPFES.

Emergency Alert is a national telephony-based emergency warning system that can deliver warning messages to landlines and mobile handsets based on the service address and mobile handsets based on the last known location of the device. Authority to utilise the Emergency Alert may be given by virtue of the pre-approval of a hazard specific emergency plan or under the Territory Emergency Plan.

The approval for the release of an Emergency Alert message can only be authorised by one of the following:

- Territory Controller
- Director, NTES
- Regional Controller
- Chief Fire Officer
- Deputy Chief Fire Officer, NTFRS
- Executive Director, BFNT
- Chief Fire Control Officer, BFNT.

The Standard Emergency Warning Signal (SEWS) is an audio alert signal (wailing siren) which may be broadcast on public media to draw attention to the fact that an urgent safety message is about to be made. Generally, SEWS is only played before announcements concerning significant emergencies where emergency management arrangements should be activated as a result.

Control and hazard management authorities may have pre-planned use of SEWS for non-weather related events, through a pre-approved hazard-specific emergency plan.

The approval for the release of a SEWS message can only be authorised by one of the following:

- Territory Controller
- Director, NTES
- Manager Hazard Preparedness and Response NT (the Bureau) (for weather and flood-related events).

Warning and information messages for general public are authorised by the Regional or Incident Controller. The dissemination of such emergency warnings and information is to be by whatever means are appropriate and available at the time.

7.10. Australasian Inter-Service Incident Management System (AIIMS)

The Australasian Inter-Service Incident Management System (AIIMS)⁵ is a robust incident management system that enables the seamless integration of activities and resources of a single agency or multiple agencies when applied to the resolution of any event.

7.11. Closure of schools

The decision to close schools due to an impending threat will be made by the Chief Minister on advice from the Territory Emergency Management Council (TEMC). When the nature of an event demands an immediate response, local authorities will take the appropriate steps to ensure the safety to the public. This action may include the temporary closure of a school to begin preparations, pending formal closure of the school by the Chief Minister for the remainder of the event.

The decision to reopen schools will be made by the Chief Minister on advice from the Chief Executive, DoE.

7.12. Closure of government offices

The decision to close government offices due to an impending threat will be made by the Chief Minister on advice from the TEMC. When the nature of an event demands an immediate response, local authorities should take all appropriate steps to ensure public safety and the protection of property.

The decision to reopen government offices will be made by the Chief Minister on advice from the TEMC.

All NTG agencies are to have an Emergency Preparedness Plan which sets out their processes for closing down their offices once approval has been given. This should have clearly articulated employee guidelines to ensure employees know when they are authorised to leave and are required to return to work.

7.13. Emergency shelters and strong buildings

Emergency shelters and strong buildings are places of refuge that provide people with a place of protection and shelter during a disaster or emergency event such as a cyclone, flood or fire.

The recognised emergency shelter within the Locality is:

- Beswick School 200 capacity.

There are no buildings identified as being built to the wind terrain code in the Locality.

The DoE, in conjunction with NTPF and the shelter owners are responsible for the management of emergency shelters during an emergency event.

The responsibilities of the emergency shelter manager are:

- the provision of personnel to staff and operate the emergency shelters at such times as they are activated
- the maintenance of effective liaison with other stakeholders with responsibilities relating to shelters, in particular the NTPF.

Emergency shelters are opened under the direction of the Territory or Regional Controller in consultation with the Shelter Group (DoE). Emergency shelters will not normally operate for more than 48 hours.

The timing of the opening of emergency shelters will be dependent upon the severity of the impending incident, the numbers to be sheltered, the time of day the incident is expected to impact and the period of time the emergency shelters are likely to be occupied. The announcement that emergency shelters are open in the Locality will be made by radio broadcast and social media, and will include emergency shelter rules such as no pets or alcohol being permitted in shelters and that food will not be provided.

⁵ More information can be found at: <https://pfes.nt.gov.au/emergency-service/publications>

7.14. Evacuation

Evacuation is a risk management strategy that can be used to mitigate the effect of an emergency or disaster on a community. It involves the movement of people to a safer location and their return. The decision to evacuate a community, including establishing an evacuation centre, is not taken lightly as it represents significant resource and financial implications.

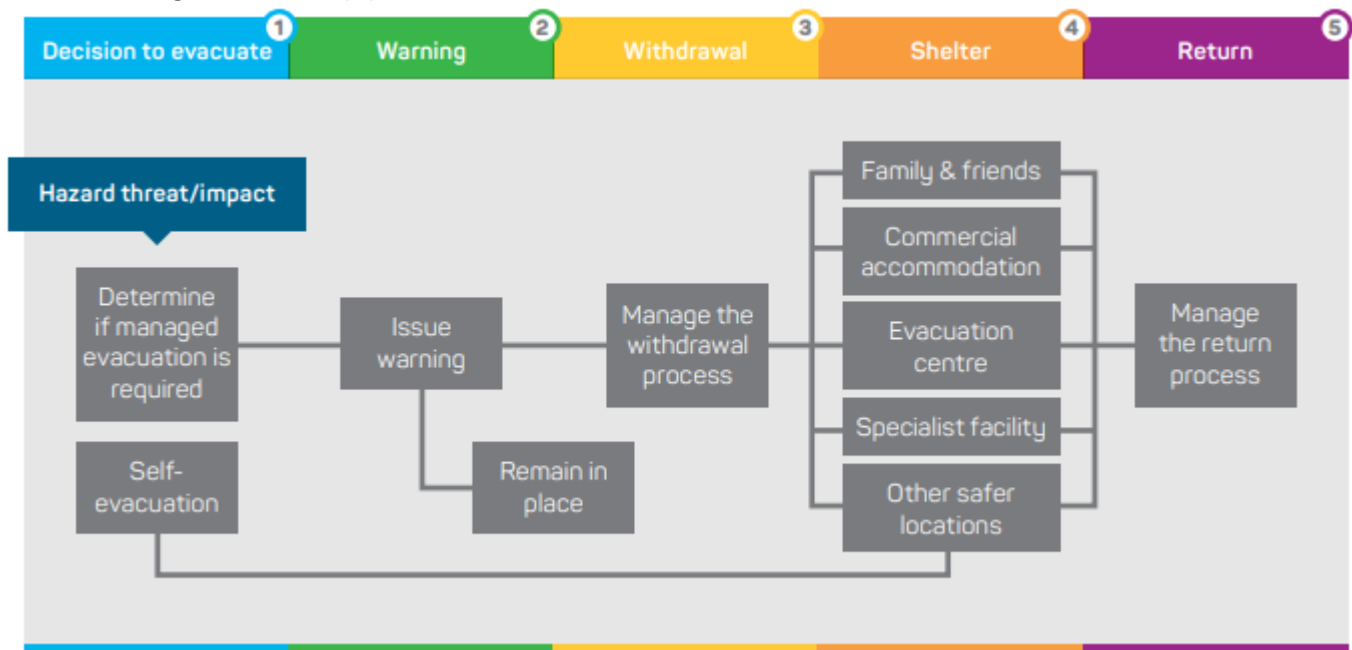
Evacuation of the Locality will be considered as a last resort. Where an evacuation is required the TEMC, in consultation with the Regional Controller, Local Controller and the LEC, will arrange emergency accommodation and transport, as necessary, through the relevant functional group/s.

An evacuation guideline for the Locality can be found at **Annex D**.

Evacuation is a complex process that has 5 distinct steps:

- decision
- warning
- withdrawal
- shelter
- return.

Each step is linked and must be carefully planned and carried out in order for the entire process to be successful. Given an evacuation centre will only be opened as a part an evacuation, it is vital to have an understanding of the 5-step process.



Source: Australian Institute of Disaster Resilience, *Evacuation Planning Handbook*, 2017

7.15. Identified evacuation centres

An evacuation centre is designed to accommodate people for short to medium periods of approximately 4 to 6 weeks, although this figure may vary.

An evacuation centre will provide some or all of the following services:

- meals
- beds
- linen
- personal support
- medical services (or access to them)

- assistance accessing finances and recreational activities.

An evacuation centre implies the provision of these services in contrast to an emergency shelter, in which people are expected to be self-sufficient.

For further information on evacuation centres/shelters management, refer to the NT Evacuation Field Guide available on WebEOC.

7.16. Register.Find.Reunite registration and inquiry system

Australian Red Cross, in partnership with the Australian Government Attorney-General's Department, has developed an improved system to help reunite families, friends and loved ones separated by an emergency. This system is called Register.Find.Reunite⁶.

This system can be initiated by either the Territory or Regional Controller without the national system being activated. Any activation of this system should occur in consultation with the Welfare Group in the first instance.

7.17. Impact assessment

Immediately after an emergency event, there is a need to identify and assess impacts to inform short and long-term recovery priorities. Comprehensive assessment of all impacts is a vital component of emergency response activities. Guidelines for the conduct of rapid assessments in the NT, including the establishment of dedicated Rapid Assessment Teams (RATs) to collect data in the field, have been developed.

The Survey, Rescue and Impact Assessment Group, led by the NTPFES, is responsible for coordinating rapid impact assessments. At the local level, Local Controllers should contact the Survey, Rescue and Impact Assessment Group lead to discuss impact assessments if deemed appropriate.

⁶ More information can be found at: <https://register.redcross.org.au/>

8. Recovery

The coordinated process and measures for supporting emergency-affected communities in the reconstruction of physical infrastructure and restoration of the social, economic and natural environments.

8.1. Local Recovery Coordinator and Coordination Committee

When a region and/or Locality has been affected by an event, the Regional Recovery Coordinator may appoint a Local Recovery Coordinator in accordance with section 87 of the Act. The Local Recovery Coordinator will establish a Local Recovery Coordination Committee (LRCC) drawing from membership of the LEC and other relevant members of the community as needed. The Local Recovery Coordinator reports directly to the Regional Recovery Coordinator.

Local Recovery Coordinator and committee functions, powers and directions are established in Division 12 and 13 of the Act respectively.

8.2. Transitional arrangements

The transition from response to recovery coordination reflects the shift from the protection of life and supporting the immediate needs of the community to establishing longer term, more sustainable support structures.

The transition to recovery coordination occurs after the completion of the transition checklist and at a time agreed by the Territory Controller and Territory Recovery Coordinator in accordance with the Territory Emergency Plan.

Transition will occur when the Territory Recovery Coordinator is satisfied that the following has occurred:

- the Territory Controller has briefed the TEMC and the Territory Recovery Coordinator
- the Regional Controller has briefed the Regional Recovery Coordinator
- where there is significant changeover of personnel, the EOC planning operations and logistics sections have briefed incoming recovery planning, operations and logistics staff.

The Regional Recovery Coordinator will ensure all functional group leaders, agencies, support groups and other relevant stakeholders are notified prior to the transition to recovery. This notification is to include changes to relevant contact details and other pertinent information.

An example of response and recovery activities can be found at **Annex E**.

9. Debrief

Debrief processes embed continuous improvement into the delivery of emergency management activities. Consistent approaches to lessons learned encourage adaptability, and flexibility across all levels of government. Sharing of knowledge and experiences throughout emergency events assists with ongoing continuous improvement of people and organisations involved.

The NTG implements a lessons learned approach recognising the positive impact on organisational culture commensurate with increasing opportunities to achieve emergency management goals. Whilst lessons learned often begins in one agency through an internal debrief process, those lessons learned are transferable across multi-agencies.

During any operational response, personnel involved are encouraged to record activities where there are lessons to be learned. Activities can include decision making and consequential responses. Where decisions are made by an Incident Controller, Incident Management Team (IMT) member or a functional group member, those decisions should be recorded in a Decision Log (WebEOC). Decision Logs can be referred to as part of the debrief process.

10. Related references

The following references apply:

- *Emergency Management Act 2013*
- *Northern Territory Aboriginal Sacred Sites Act 1989*
- *Aboriginal Land Rights (Northern Territory) Act 1978 (Cth)*
- *Building Act 1993*
- *Building Regulations 1993*
- Territory Emergency Plan
- Northern Region Emergency Plan
- National Disaster Risk Reduction Framework
- National Disaster Risk Assessment Guidelines
- Rapid Assessment Team Guidelines
- Transition to Recovery Checklist.

11. Annexures

Annex A Functional groups - roles and responsibilities

Annex B Functions table

Annex C Prevention, mitigation strategies and action plans for identified hazards

Annex D Evacuation guideline

Annex E Summary of response and recovery activities

11.1. Annex A: Functional groups - roles and responsibilities

Functional group	Local contact
Biosecurity and Animal Welfare	Department of Industry, Tourism and Trade (DITT)
Digital and Telecommunications	Department of Corporate and Digital Development (DCDD)
Critical Goods and Services	DITT
Emergency Shelter	Beswick School
Engineering	Department of Infrastructure Planning and Logistics (DIPL)
Industry	DITT
Medical	Sunrise Health Clinics
Public Health	Sunrise Health Clinics
Public Information	DCMC
Public Utilities	Power and Water Corporation (PAWC)
Transport	DIPL
Survey, Rescue and Impact Assessment	NTPF with the assistance of Fire and Emergency Response Groups
Welfare	Department of Territory Families, Housing and Communities (TFHC)

Beswick

Function/Activity	Local contact
Medical services	Beswick Health Clinic
Power supply (ESO)	Power Projects
Food supplier	Outback Stores
Transportation	Bush, Aged Care and Aboriginal Investment Group

Barunga

Function/Activity	Local contact
Medical services	Barunga Health Clinic
Power supply (ESO)	Power Projects
Food supplier	Outback Stores
Transportation	Bush, Aged Care
Housing	TFHC

Eva Valley

Function/Activity	Local contact
Medical services	Eva Valley Health Clinic
Power supply (ESO)	PAWC
Food supplier	Outback Stores
Transportation	DIPL
Housing	TFHC

Full details on functional group roles and responsibilities are detailed in the Territory Emergency Plan.

11.2. Annex B: Functions table

Emergency response and recovery functions with identified agencies/organisation/provider.

During an event some of these functions may be needed at a local level.

Functions	Agency/organisation/provider responsible		
	Beswick	Barunga	Eva Valley
Animal/livestock management	RGRC	RGRC	RGRC
Anti-looting protection	NTPF	NTPF	NTPF
Banking services	ATM Stores	ATM Stores	ATM Stores
Broadcasting: What radio stations provide announcements?	RGRC, Broadcasting for Remote Aboriginal Communities Scheme (BRACS) and ABC	RGRC, BRACS and ABC	RGRC, BRACS and ABC
Clearing of essential traffic routes	RGRC	RGRC	RGRC
Clearing storm water drains	RGRC	RGRC	RGRC
Clothing and household items	Beswick Store	Barunga Store	Barunga Store
Community clean up	RGRC	RGRC	RGRC
Control, coordination and management	Designated Control Authority	Designated Control Authority	Designated Control Authority
Coordination to evacuate public	NTPF	NTPF	NTPF
Critical Goods and Services (protect/resupply) <ul style="list-style-type: none"> • food • bottle gas • camping equipment • building supplies 	Beswick Store	Barunga Store	Barunga Store
Damaged public buildings: Coordination and inspections	DIPL	DIPL	DIPL
Disaster victim identification capability	NTPF	NTPF	NTPF
Emergency Alerts	NTPFES/BFNT	NTPFES/BFNT	NTPFES/BFNT
Emergency catering	Beswick Store	Barunga Store	Barunga Store

Functions	Agency/organisation/provider responsible		
	Beswick	Barunga	Eva Valley
Emergency food distribution	Beswick Store, RGRC	Barunga Store, RGRC	Barunga Store, RGRC
Emergency Operations Centre (EOC), including WebEOC	NTPFES	NTPFES	NTPFES
Emergency shelter - staff, operations and control	DoE/RGRC School or organisation utilising shelter	DoE/RGRC School or organisation utilising shelter	DoE/RGRC School or organisation utilising shelter
Evacuation centre - staffing, operations and control	Welfare Group		
Financial relief/assistance	Centrelink	Centrelink	Centrelink
Identification of suitable buildings for shelters	RGRC		
Interpreter services	DCMC and Locals	DCMC and Locals	DCMC and Locals
Management of expenditure in emergencies	Controlling Authority and any activated functional groups at the direction of the Controlling Authority		
Medical services	Sunrise Health Clinic	Sunrise Health Clinic	Sunrise Health Clinic
Network communications (IT): Responders/public maintenance and restoration of emergency communication	Telstra	Telstra	Telstra
Personal support	Sunrise Health Clinic	Sunrise Health Clinic	Sunrise Health Clinic
Power: Protection and restoration:	PAWC	PAWC	RGRC, PAWC
Public messaging during response and recovery.	RGRC, BRACS and NTPF	RGRC, BRACS and NTPF	RGRC, BRACS and NTPF
Public/Environmental Health (EH) management <ul style="list-style-type: none"> All EH functions including water and food safety disease control 	Sunrise Health Clinics	Sunrise Health Clinics	Sunrise Health Clinics
Rapid impact assessment	NTPF, RGRC and PAWC	NTPF, RGRC and PAWC	NTPF, RGRC and PAWC
Recovery coordination	DCMC, RGRC	DCMC, RGRC	DCMC, RGRC
Repatriation	TFHC	TFHC	TFHC

Functions	Agency/organisation/provider responsible		
	Beswick	Barunga	Eva Valley
Restoration of public buildings	RGRC, DIPL	RGRC, DIPL	RGRC, DIPL
Restoration of roads and bridges (council/territory) excluding railways	RGRC	RGRC	RGRC
Road management and traffic control including public information on road closures	RGRC, NTPF	RGRC, NTPF	RGRC, NTPF
Sewerage: Protection and restoration	PAWC	PAWC	PAWC
Survey	RGRC, NTPF	RGRC, NTPF	RGRC, NTPF
Traffic control	RGRC, NTPF	RGRC, NTPF	RGRC, NTPF
Transport : Commercial and public airport/planes, automobiles, buses	DIPL	DIPL	DIPL
Vulnerable groups	RGRC	RGRC	RGRC
Waste management <ul style="list-style-type: none"> • collection • disposal of stock 	RGRC	RGRC	RGRC
Water (including drinking water): Protection and restoration	PAWC	PAWC	RGRC, PAWC

11.3. Annex C: Prevention, mitigation strategies and action plans for identified hazards

11.3.1. Fire

A fire hazard is an event, accidentally or deliberately caused, which requires a response from one or more of the statutory fire response agencies. A fire hazard can include, but not limited to:

Term	Definition
Structure fire	A fire burning part, or all of any building, shelter, or other construction.
Bushfire	An unplanned fire. It is a generic term that includes grass fires, forest fires and scrub fires. Bushfires are a natural, essential and complex part of the NT environment. The term bushfire is interchangeable with the term wildfire.
Vehicle fire	An undesired fire involving a motor vehicle.

Across the NT, landowners are an essential part of the fire management process. Communication, co-operation and shared responsibility within the community, matched by a capacity to undertake self-protective measures, form the basis of successful fire management throughout the NT.

In areas where there is no gazetted fire protection zone, if the owner or occupier of land is unable to control fire on the land, the owner or occupier must notify BFNT of this fact. When fires are reported to 000, the Joint Emergency Services Call Centre, the (JESCC) will contact BFNT to triage the report. In these areas, firefighting response from BFNT is not guaranteed as there is no established volunteer firefighting resource. BFNT may assist the owner or occupier of the land through the coordination of information and advice to assist the owner or occupier to control the fire. This may include liaison with affected neighbouring owners or occupiers for resource support, provision of fire weather information or the issuing of public information. In some circumstances, BFNT may deploy firefighting resources from larger regional centres to assist the owner or occupier to control the fire. BFNT have a rostered NT Duty Officer (NTDO) to provide 24/7 incident triage coverage who can be contacted through the JESCC.

Actions to be taken – Fire

As described above, in areas where there is no fire protection zone (BFNT) or emergency response area (NTFRS), fire is the responsibility of the land owner or occupier. Where an owner or occupier has contacted BFNT that they are unable to control fire on the land, BFNT may contact the Local Controller to discuss local response arrangements and coordination of resources.

Prevention and preparative controls include, but are not limited to:




- a fire danger period is declared over large areas when climatic and seasonal conditions presents increased fire risk for a prolonged period of time. A fire danger period usually coincides with the accepted 'fire season' in an area. Broadly this is during the Australian summer months in central Australia and during the dry season further north. A permit to burn is required before using fire during a fire danger period in all zones
- a fire ban can be declared for up to 24 hours. A combination of factors are considered when declaring a fire ban period including forecast fire danger, ignition likelihood, hazards and resourcing. All permits to burn are revoked within the declared fire ban area
- a fire management area can be declared in an area where BFNT have identified heightened fire risk. A fire management plan can be prescribed for a fire management area, and the plan can require landowners to take action to prepare for, or prevent, the spread of fire

- additional fire regulations apply within NTFRS Emergency Response Areas (ERA) and BFNT Fire Protection Zones (FPZ). Permits to burn are required throughout the entire year inside an ERA or FPZ and a minimum 4 m wide firebreak within the perimeter boundary of all properties and additional firebreaks around permanent structures and stationary engines is required within an FPZ
- the BFNT Regional Fire Management Plan
- establishment of an IMT with liaison officers from other agencies to assist
- radio, television and social media posts.

Warning and advice approval flow

The Australian Warning System is a new national approach to information and warnings during emergencies like bushfire. The system uses a nationally consistent set of icons, like those below.

There are 3 warning levels:

	Warning level	Description
	Advice (Yellow)	An incident has started. There is no immediate danger. Stay up to date in case the situation changes
	Watch and Act (Orange)	There is a heightened level of threat. Conditions are changing and you need to start taking action now to protect you and your family
	Emergency Warning (Red)	An Emergency Warning is the highest level of warning. You may be in danger and need to take action immediately. Any delay now puts your life at risk.

Each warning level has a set of action statements to give the community clearer advice about what to do. Calls to Action can be used flexibly across all 3 warning levels depending on the hazard.

All warnings and advice will be issued by the Incident Controller from the relevant controlling authority for fire (NTFRS or BFNT).

11.3.2. Flood

Hazard	Controlling Authority	Hazard Management Authority
 Flood	NT Police Force	NT Emergency Service

Inundation, (also known as pluvial flooding), occurs when an area receives a large amount of water in a short amount of time which causes localities to be submerged. In the NT, this can include when a riverbank is at risk after several days of heavy rain.

The Maranboy Locality may be subject to inundation caused by seasonal monsoonal/severe storm activity. When such inundation occurs, access by both air and road will be severely restricted.

A flood hazard includes a flood threat to the township, housing and infrastructure of the Locality including the surrounding areas. The Bureau of Meteorology (the Bureau) will issue a Flood Watch advice with up to 4 days lead time in situations where forecast rainfall and catchment conditions may lead to flooding.

Floodplain maps have been developed for populated areas which lie along river reaches that have the potential to flood. Floodplain maps show the depth and extent of inundation caused when rivers rise above their banks⁷.

Maranboy Locality encompasses an area of approximately 90,000 square km and covers the communities of Barunga, Beswick (Wugularr), and Eva Valley (Manyalluluk). Of the communities within the Locality, only Beswick is subject to recorded flooding, however, there is the possibility of it occurring at Barunga Community as it came close to doing so in the Australia Day floods in 1998. The Locality also covers several pastoral properties, of which only one, being Wongalara Station, is directly threatened by flooding.

The communities of Barunga and Beswick are both serviced by the Central Arnhem Road, the single road that traverses the entire length of the Locality, from the Stuart Highway to the Goyder River. This road may be cut at the following points during severe weather.

Area distance from Stuart Highway

Roper Creek	5 km
Four Mile floodway	15 km
Beswick Creek	28 km
Dook Creek	57 km
Waterhouse River	58 km
Flying Fox Creek	180 km

Beswick (Wugularr) Community is subject to flooding from the Waterhouse River, which runs one km to the west of the community. Road access to the community is cut by rising water at the Waterhouse River Bridge, which is approximately one km west of the community, and Dook Creek Bridge, approximately 2 km west of the community, prior to the community actually flooding.

Flooding initially begins at the eastern side of the community, with Wugularr billabong, situated on the northern side of the community overflowing its banks. The south-western end of the community is the last area to be inundated, this area having the aged care facility and mechanical workshops situated in it.

Access to the community during time is by boat or rotary wing aircraft only. Boat access is made difficult, as the Central Arnhem Road is cut at Dook Creek, making it necessary to travel down Dook Creek to its junction with the Waterhouse River, and then travel up stream to reach the community.

⁷ More information can be found at: <https://depws.nt.gov.au/water/water-resources/flooding-reports-maps/floodplain-maps>

In cases of extreme flooding, Dook Creek and Waterhouse River will become one body of water. When this occurs, Beswick Community will have flooded to approximately one m in depth throughout parts of the town. Emergency evacuation procedures are included in Annex D.

Barunga Community

Barunga Community is possibly threatened by flooding from Beswick Creek, which runs along the western edge of the community.

The road into the community may be cut at the Beswick Creek Bridge, and has on one occasion been washed away by the force of the water when in flood conditions.

Areas of the community that may become affected by flooding would include the store, church and school. Residences in the areas of 'Sunrise Camp' and 'Bottom Camp' may also be affected if the community floods. This could initially relate to house lots 167, 168 and 304.

The areas of 'Top Camp' should not be affected by flooding.

Flooding Forecasting

The Flood Forecasting Team, DEPWS provide flood height advice and selective forecast advice for river systems in the NT, including the Waterhouse River. This is prepared from river gauges and fluviometry, data and some rainfall forecasting from the Bureau. Information from this source is provided by the NTES TDO.

If it is considered probable that the Beswick Community will flood due to heavy rainfall or other extraordinary circumstances, the Maranboy Local Controller is to inform Superintendent Central Division and the NTES TDO.

At 7.7 m at the gauge, the flood goes over the bridge. Also note that when Dook Creek has risen to 6 m, (with water over the road), a decision will be made whether the road will be closed. The indicative impact of flood levels is indicated in the table below:

Height at Beswick Bridge gauge (metres)	Effect in town
6.0 m	Bridge deck under water – possible closing of bridge
7.7 m Minor Flood Warning	Water over bridge – a minor flood warning – bridge closed
8.1 m Moderate Flood Warning	Water could affect some yards and further pathways within community
8.7 m Major Flood Warning	Inundation of lower community houses may occur close to billabong/river areas. Usual impact is inundated yards only.

A study was undertaken in 2001 into flooding of the Waterhouse River and the Upper Roper River. One of the results of that study was the production of a Gauge Height Flood Impact Data Base.

Note that experience has shown that the effect of the indicated levels is not always accurate. The relationship between the level of the Waterhouse River and flooding in the community is dependent on the level of the Wugularr Billabong. Until the lagoon is full and water breaks its banks, there is a minimal effect on the community. However, once the banks of the billabong are breached, the onset of flooding in the community is rapid.

Further work has been undertaken on the Wugularr Billabong in recent years which has increased its holding capacity. A review of the Flood Warning Classifications for Beswick was undertaken after numerous incidents had indicated flood profiles had changed due to work undertaken on a billabong behind the community. The outcomes of the review are reflected in the table above.

The flood data is indicative only, but does provide a guide on the sequence of affected buildings.

Prevention and preparative controls include, but are not limited to:

- Ongoing assessment by relative functional groups of means to improve holding capacity
- Undertaking relevant emergency exercises

Public safety message process:

- DEPWS issues a flood advice to NTES TDO
- NTES TDO notifies Local Controller and NTES Northern Command Manager
- Local Controller notifies LEC
- NTES Northern Command Manager consults with DEPWS, the Bureau and Incident Controller to determine recommended messaging
- PFES Media and Corporate Communication Unit or Public Information Group receives approved messaging to publish.

Actions to be taken – Flood – guide only

Organisation/ Provider	Minor	Moderate	Major	Falling river heights	Transition to recovery
All members	Attend briefings	Attend briefings	Attend briefings	Attend briefings	Attend briefings
	Inform key personnel	Inform key personnel	Inform key personnel	Inform key personnel	Inform key personnel
	Provide SITREPs	Provide SITREPs	Provide SITREPs	Provide SITREPs	Provide SITREPs
Local Controller	Liaise with the Bureau/the NTES TDO/TEOC	Convene a meeting of the Maranboy LEC and allocate tasks as required	Notify LEC members of the declaration and allocate tasks as required	Monitor river height	Liaise with the Bureau
	Convene meeting of the Maranboy LEC to advise members of the details of the flood warning and ascertain state of preparedness	Ensure that dissemination of flood warning information to the public is maintained	Ensure that the dissemination of the flood warning information to the public and SITREP frequency is maintained	Convene a meeting of the Maranboy LEC	Liaise with Recovery Coordinator
	Disseminate the flood warning information to the public as necessary, in conjunction with the RGRC	Advise shelter managers to commence preparation of shelters	Consider the requirement to close schools	Advise members of the declaration of the Recovery stage	Liaise with the NTES TDO/TEOC
	Ensure that communications are established and maintained with the Regional Controller and the NTES TDO	In conjunction with the Beswick School principal, consider school closure	Direct the opening of shelters if necessary	Brief members on the situation	Issue cancellation of flood advice to the public
		Liaise with the NTES TDO/TEOC	Disseminate post flood warnings and information to the general public as necessary		
			Monitor roads and consider survey and rescue, as necessary		
			Consider commencement of transition to recovery		

				operations, as necessary	
DoE	<p>Contact and advise the Regional Office of declaration of Minor</p> <p>Brief CEC staff</p> <p>Advise Maranboy Local Controller of state of preparedness and availability of manpower</p> <p>Maintain normal education services</p>	<p>Contact and advise the Regional Office of declaration of Moderate</p> <p>Brief CEC staff and activate Departmental Flood Plan</p> <p>Maintain normal education services until advised by Local Controller</p> <p>Prepare school classrooms for use as temporary evacuation centres if required</p>	<p>Brief CEC staff and initiate appropriate Emergency Management response procedures</p> <p>Contact and advise the Regional Office of declaration of Major level</p>	<p>Confirm debrief arrangements with Maranboy Local Controller</p> <p>Brief CEC staff</p> <p>Contact and advise the Regional Office of declaration of 'Falling River Heights'</p> <p>Restore facilities and resume normal education services as soon as possible</p>	
DoH	<p>Contact and alert Health Clinic personnel</p> <p>Check equipment and first aid supplies</p> <p>Brief staff and maintain normal Health Clinic services</p> <p>Prepare a list of persons who may require evacuation to</p>	<p>Contact and advise the General Manager, Katherine on the declaration of Moderate level</p> <p>Brief staff and activate Health Centre Flood Plan</p> <p>Prepare and pack those medications and emergency medical</p>	<p>Initiate Emergency response procedures including the movement of the Health vehicle to high ground if necessary</p> <p>Contact and advise the General Manager, Katherine, on the declaration of Major level</p>	<p>Contact and advise the General Manager, Katherine, on the declaration of Falling River Heights</p> <p>Advise Health Clinic staff of declaration of Falling River Heights</p> <p>Account for all staff and equipment and refurbish stores</p>	

	<p>Katherine and advise the Local Controller</p> <p>Ensure the Health Clinic vehicle is fuelled and ready for use</p> <p>Liaise with the Town Manager concerning any health requirements at evacuation/relocation sites</p>	<p>equipment required in the Health vehicle</p>	<p>Brief staff</p> <p>Keep the Local Controller advised on first aid and medical response details</p> <p>Maintain health services until either advised otherwise by Maranboy Local Controller or conditions prevent continuation of service</p>	<p>Advise Local Recovery Coordinator of any urgent priorities and participate in meetings as required</p>	
<p>Barunga and Beswick Stores</p>	<p>Conduct a full stock take of all food stuffs on hand and advise the Local Controller on holdings</p>	<p>Maintain liaison with the Local Controller on the availability of resources</p> <p>Carry out appropriate protective or preventative measures as required by the Local Controller to prevent loss or contamination of food stuffs</p>	<p>Initiate appropriate Emergency Management response procedures, such as rationing of available food stuffs, (if applicable)</p> <p>Brief the Local Controller on levels of stock on hand throughout the period of activation, and any requirements of resupply, if any</p>	<p>Where appropriate, recall and stand down staff</p> <p>Advise the Local Controller on any outstanding problems associated with the Emergency Management operation</p>	

<p>Roper Gulf Regional Council Manager - Barunga</p>	<p>Contact and brief community personnel on local flood plan</p> <p>Check with and advise Local Controller of state of preparedness and availability of manpower and community resources</p> <p>Maintain community services</p>	<p>Contact and brief community personnel on local flood plan</p> <p>Carry out appropriate protective or preventative measures as required by the Local Controller or as required/recommended by PAWC agent</p> <p>Maintain community services and carry out other duties as requested by the Local Controller</p>	<p>Brief community personnel</p> <p>Initiate appropriate Emergency response procedures</p> <p>Through the Local Controller, liaise with PAWC agent over essential services restoration (if necessary)</p> <p>Assist the Local Controller as required</p>	<p>Advise the Local Controller of any outstanding problems associated with the floods</p> <p>Confirm debrief arrangements with the Local Controller</p> <p>Advise Local Recovery Coordinator of any urgent priorities and participate in meetings as required</p>	
<p>Roper Gulf Regional Council - Beswick</p>	<p>Contact and brief community personnel on local flood plan</p> <p>Check with and advise Local Controller of state of preparedness and availability of manpower and community resources</p> <p>Ensure the community vehicle with the Satellite telephone is refuelled and prepared</p>	<p>Brief community members and activate community flood plan</p> <p>Close the club for all business (Police and Liquor Commission assistance can be sought if necessary)</p> <p>Carry out appropriate protective or preventative measures as required by the Local Controller or as required/recommended</p>	<p>Brief community personnel</p> <p>Initiate appropriate Emergency Management response procedures by coordinating:</p> <p>the movement of persons to high ground</p> <p>stand up community evacuation shelters</p>	<p>Advise the Local Controller of any outstanding problems associated with the floods</p> <p>Confirm debrief arrangements with the Local Controller</p> <p>Advise Local Recovery Coordinator of any urgent priorities and participate in meetings as required</p>	

	<p>Check fuel tank levels and commence fuel rationing and order resupply before the road closes</p> <p>Prepare a community register to assist in the administration of evacuation/relocation</p> <p>Ensure alternative food/shelter/potable water supplies arranged/prepared adequate for population including alternative power/lighting etc</p> <p>Prepare the evacuation are of rubbish and toilet facilities</p> <p>Maintain community services</p>	<p>by the Essential Services Officer</p> <p>Maintain community services</p>	<p>the disposal of rubbish and human wastes</p> <p>Through the Local Controller, liaise with Roads and PAWC over essential services restoration if necessary</p>		
<p>Essential Services Officer - Beswick</p>	<p>Liaise with other departments/organisations as required</p>	<p>Maintain liaison with other departments or organisations as required</p>	<p>Maintain liaison with other departments or organisations as required</p>	<p>Restore water and sewerage services to community</p>	

	<p>Ensure all water storage facilities are filled to capacity</p> <p>Check the availability of resources</p>	<p>Carry out appropriate protective or preventative measures as required, such as turning off power to sewerage pump etc</p>	<p>Prevent contamination of town water supplies by isolating tanks, turning off pumps etc</p> <p>Conduct damage assessment</p> <p>Restore essential services according to priorities given by the Local Controller</p>		
<p>Barunga Community Education Centre</p>	<p>Contact and advise the Regional Office of declaration of Minor level</p> <p>Brief CEC staff</p> <p>Advise Maranboy Local Controller of state of preparedness and availability of manpower</p> <p>Maintain normal education services</p>	<p>Contact and advise the Regional Office of declaration of Moderate level</p> <p>Brief CEC staff and activate Departmental Flood Plan</p> <p>Maintain normal education services until advised by Local Controller</p> <p>Prepare school classrooms for use as temporary evacuation centres if required</p>	<p>Brief CEC staff and initiate appropriate Emergency Management response procedures</p> <p>Contact and advise the Regional Office of declaration of Major level</p>	<p>Confirm debrief arrangements with Maranboy Local Controller</p> <p>Brief CEC staff</p> <p>Contact and advise the Regional Office of declaration of 'Falling River Heights'</p> <p>Restore facilities and resume normal education services as soon as possible</p>	

11.3.3. Hazardous material

	Hazard	Controlling Authority	Hazard Management Authority
	Hazardous material	NT Police Force	NT Fire and Rescue Service

Hazardous material means any of the following:

1. dangerous goods as defined in the *Dangerous Goods Act 1998*
2. a hazardous chemical as defined in the *Work Health and Safety (National Uniform Legislation) Regulations 2011*
3. a product or substance that has the potential to harm life, health, property or the environment.

Large quantities of hazardous materials are transported daily by road to many centres throughout the NT and as a consequence any release or spillage could easily result in the loss of life, widespread disruption, danger to communities and a threat to the environment.

Responses to hazardous material incidents will be coordinated from the JESCC. NTFRS resources will be responded as per pre determine response arrangements contained within the Intergraph Computer-Aided Dispatch (ICAD) system for incidents occurring within an NTFRS Emergency Response Area (ERA). For incidents occurring outside of an ERA, response will be approved by the rostered NTFRS TDO.

Prevention and preparative controls include, but are not limited to:

- a person involved in the handling of dangerous goods must ensure, as far as practicable, that the goods are handled safely as described within the *Dangerous Goods Act 1998*
- a person who manufactures, imports or supplies dangerous goods must ensure, as far as practicable, that the goods are not imported into, or supplied in, the Territory in an unsafe condition as described within the *Dangerous Goods Act 1998*
- hazard labels for dangerous goods
- training in PUAFIR306 Identify, detect and monitor hazardous materials at an incident and PUAFIR308 Employ Personal Protection at a hazardous materials incident delivered to NTFRS members
- NTFRS HAZMAT and Chemical, Biological, Radiological and Nuclear Hazard Management Plan.

Public message approval flow:

- NTFRS to send approved public messaging to PFES Media and Corporate Communication Unit for dissemination in consultation with the Police Territory Duty Superintendent

11.3.4.Road crash

	Hazard	Controlling Authority	Hazard Management Authority
	Road crash	NT Police Force	NT Fire and Rescue Service

A road crash occurs when a vehicle collides with another vehicle, pedestrian, animal, road debris, or other stationary obstruction, such as a tree, pole or building. Road crashes often result in injury, disability, death, and or property damage as well as financial costs to both society and the individuals involved. Emergency services are frequently called on to extricate seriously injured casualties from their vehicles following road crashes. This is achieved by employing space creation techniques to create openings in the vehicle. These openings make it possible to administer first aid to the casualty and to remove them from the vehicle.

A number of factors contribute to the risk of collisions, including vehicle design, speed of operation, road design, weather, road environment, driving skills, fatigue, impairment due to alcohol or drugs, and behaviour, notably aggressive driving, distracted driving, speeding and street racing.

Responses to road crash incidents will be coordinated from the JESCC. NTFRS will respond as per pre-determined response arrangements contained within the Intergraph Computer-Aided Dispatch (ICAD) system for incidents occurring within an NTFRS Emergency Response Area (ERA). For incidents occurring outside of an ERA, response will be approved by the rostered NTFRS TDO.

Prevention and preparative controls include, but are not limited to:

- radio, television and social media posts
- targeted road safety campaigns
- community engagement strategies
- training in PUASAR024 - undertake road crash rescue delivered by NTES and NTFRS to NTPFES members.

Public message approval flow:

- Police Territory Duty Superintendent to approve public messaging and forward to PFES Media and Corporate Communication Unit for dissemination.

11.4. Annex D: Evacuation guideline

The following is to be used as a guide only.

Stage 1 - Decision		
Authority	<p>The Regional Controller will authorise the activation of the evacuation plan.</p> <p>This evacuation plan is to be approved by the TEMC prior to activation.</p>	Regional Controller in conjunction with TEMC
Legal references	The Act and approved Local Emergency Plan. It is recommended that the Minister declares an Emergency Situation under section 18 of the Act, when this evacuation plan is activated.	
Alternative to evacuation? i.e. shelter in place, temporary accommodation on-site/nearby.	If needed residents will be progressively relocated within the community to <location to be determined>.	Local Controller to arrange
Summary of proposed evacuation	<p>Decision – made by the Regional Controller when the community have sustained damage during <to be determined> that cannot support residents in situ during recovery.</p> <p>The Local Controller to disseminate information to the community.</p> <p>Withdrawal – 3 stage process:</p> <ol style="list-style-type: none"> 1. <location to be determined>; community to the <location to be determined>; to be registered for evacuation to <location to be determined> 2. once registered, groups to move to the airstrip assembly area using buses/vehicles 3. Red Cross to register check utilising Register Find Reunite. <p>Shelter – evacuees will be encouraged to stay with friends or family. The remainder will be accommodated at an evacuation centre <Location to be determined></p> <p>Return – to be determined once recovery can sustain return to <location to be determined>.</p>	The decision will be informed by additional advice from technical experts, e.g. the Bureau.
Which communities/outstations or geographical area does the evacuation apply to?	<Out stations, Homelands and homesteads>	
Vulnerable groups within the community	The Medical Group will liaise with local health staff and provide information on medically vulnerable people.	Medical Group and Transport Group to action.

	The identified people will be evacuated <at a time to be determined>.	
Community demographics (approx. total number, family groups, cultural groups etc.)	<p>For more information, refer to the Evacuation Centre Field Guide (page 20 section 4.3) which can be found in WebEOC.</p> <p>Examine the demographic breakdown of the community to be evacuated including:</p> <ul style="list-style-type: none"> • the total number of people being evacuated • an estimate of the number of people likely to require accommodation in the evacuation centre • a breakdown of the evacuees to be accommodated by age and gender. For example, the number of family groups and single persons, adult males and females, teenage males and females, and the number of primary school-aged children, toddlers and infants • a summary of cultural considerations, family groups, skin groups and community groups • potential issues that may arise as a result of these groups being accommodated in close proximity to one another • a summary of people with health issues, including chronic diseases, illnesses and injuries. • details of vulnerable clients (other than medically vulnerable), such as the elderly, frail and disabled (and if they are accompanied by support i.e. family members) • details of community workers also being evacuated who may be in a position to support the operation of the evacuation centre. Examples include teachers, nurses, health workers, shire staff, housing staff and police. 	
What is the nature of the hazard?	<To be determined>	
Estimated duration of the potential evacuation?	<To be determined>	

Triggers for the evacuation	<p>Example</p> <ol style="list-style-type: none"> 1. evacuation planning to commence when the Locality is under a <to be determined> 2. implement evacuation if the severity and impact has caused major damage and disruption to all services 3. elderly and vulnerable people are to be considered for evacuation due to limited health services. <p>Further details of the intra-community relocation plan are required.</p>	Regional Controller
Self-evacuation	Where possible residents will be encouraged to self-evacuate and make their own accommodation arrangements if they wish to do so. Individuals and families taking this option will be encouraged to register prior to leaving the community.	Local Controller
Responsibility for the coordination Stage 1	Regional Controller Local Controller	
Stage 2 – Warning		
Who has the authority to issue warnings?	<p>The Bureau will issue advice and warnings. All further public information will be approved by the Regional Controller in consultation with the Public Information Group and NTES.</p> <p>The Local Controller will coordinate the dissemination of community level information.</p> <p>A combination of the following will be utilised:</p> <ul style="list-style-type: none"> • broadcasted over radio and television • social media utilising the NTPFS Facebook page SecureNT twitter feed. • loud hailer • door to door • Emergency Alert System. 	Regional Controller to liaise with Public Information Group and NTES
Process for issuing evacuation warnings and other information	At community level, the Local Controller is to appoint a community spokesperson to disseminate up to date situational information at community meetings which are to be held immediately post a convening LEC meeting, at each declared stage of the Local Emergency Plan. A media brief approved by the Local Controller at each LEC meeting, will be announced over the local radio station containing current situational information, relevant safety information, what to prepare, when to self-evacuate, and where to go.	Local Controller

When will warnings be issued (relative to the impact of the hazard)?	Immediately upon a decision to evacuate being made the LEC will commence coordinating residents to prepare for transport.	Local Controller
What information will the messages contain? (What do people need to know?)	To be determined: <ul style="list-style-type: none"> • outline of the proposed evacuation plan • measure to prepare residences • safety issues; not overloading transport • items to bring on the evacuation • arrangements for pets and animals. 	Local Controller Biosecurity and Animal Welfare Group liaison
Responsibility for the coordination of Stage 2	Local Controller/Regional Controller	
Stage 3 - Withdrawal		
Outline	3 stage process: <ol style="list-style-type: none"> 1. community residents to <staging area 1> 2. <staging area 1> to airport 3. airport to <location to be determined> evacuation centre 	
Maranboy community to the airstrip	<p>Lead</p> <ul style="list-style-type: none"> • NTPF <p>Overview</p> <ul style="list-style-type: none"> • the community will gather at the <location to be determined> prior to being transported by community buses to the airstrip. <p>Risks/other considerations</p> <ul style="list-style-type: none"> • evacuation should be undertaken during daylight hours, if possible. • risks include inclement weather, persons with infectious diseases, vulnerable persons, and frail/elderly persons, chronically ill • estimated time en-route: ___ minutes each way • estimated timeframe overall: ___ hours utilising current resources. • alternate transport options. 	NTPF

<p>Assembly area</p>	<p>Likely location of evacuation centre: Maranboy School</p> <ul style="list-style-type: none"> • capacity up to 100 under cover • up to 200 with additional tents. <p>Additional resources will be required to host an evacuation centre in the form of tents and bedding. This will also be the point where evacuee registration will take place. Basic services should be provided i.e. drinking water, information.</p> <p>Services to be provided</p> <ul style="list-style-type: none"> • Red Cross Coordinator: Red Cross <p>Other details</p> <p>Evacuee registration. Residents will need to register at <location to be determined> or airport if (self-evacuating) to be permitted access to the evacuation centre at the <location to be determined>.</p>	<p>NTPF/TFHC</p>
<p>Maranboy community to <location to be determined></p>	<p>Lead - NTPF</p> <p>Example Lead - Transport Group</p> <p>Overview</p> <ul style="list-style-type: none"> • Transport Group has identified commercial operators and the Police Air Section able to provide evacuation assistance. • Total proposed air assets: _____. Commercial operators will be charging commercial rates for their services at a cost of (\$_____). • The operation will begin at _____hrs with the first aircraft, leaving <to be determined> and arriving at _____hrs • The operation will continue throughout the day until all community members are evacuated. It is estimated that all community members can be evacuated by _____hrs (arriving in <to be determined>). 	<p>NTPF/Transport/Logistics</p>

<p>< Location > airport to evacuation centre <to be determined></p>	<p>Lead - Transport Group</p> <p>Example</p> <p>Overview</p> <ul style="list-style-type: none"> • Buses (Buslink) will be on standby at • <location to be determined> airport from ____am to receive passengers and continue throughout the day transferring to <to be determined> only, as required. • Transport staff will be on the ground at <location to be determined> airport to marshal passengers on buses only. • Buses to be arranged by the Transport Group. Evacuees will be collected from <location to be determined> airport and transported to the <location to be determined>. <p>A reception team provided by NTPF will meet evacuees and facilitate transport.</p> <ul style="list-style-type: none"> • details <to be determined> • estimated time en-route: ____ minutes • estimated timeframe: possibly ____ hours, dependant on aircraft arrivals • alternate transport options: ____. 	<p>Transport Group</p>
<p>End point</p>	<p><location to be determined></p>	<p>EOC/Welfare</p>
<p>Transport of vulnerable members of the community</p>	<p>Medical Group to arrange transport of vulnerable people from the community to <location to be determined>.</p>	<p>Medical Group</p>
<p>Registration and tracking</p>	<ul style="list-style-type: none"> • Welfare Group to activate registration arrangements. Registration will be undertaken by NTPF and will occur at <location to be determined>. • Names of evacuees will be obtained prior to boarding buses. • Where possible details of individuals and families self-evacuating to be obtained on arrival at the <location to be determined> airstrip. • If persons are not registered as evacuees or self-evacuees they will not be provided access to the evacuation shelter. 	<p>Welfare Group/ NTPF</p>

Coordination Stage 3	Regional Controller	EOC coordination.
Stage 4 – Shelter		
Overview	An evacuation centre will be established at the <location to be determined>. The <location to be determined> will be the primary areas used.	
Alternate shelter options	Where possible evacuees will be encouraged to seek alternative accommodation with family, friends or through commercial accommodation.	
Estimated duration of the shelter phase	To be determined	
Arrangements for domestic animals	No domestic animals are to accompany evacuees. Any self-evacuees with domestic animals will be expected to make their own arrangements for the animals.	Advise Animal Welfare
Roles		
• Director	TFHC	Welfare Group
• Deputy Director	TFHC	Welfare Group
• Logistics/planning	EOC	Controlling Authority
• Admin teams	EOC	DCMC/Welfare Group
• Shift manager/s	To be determined – drawn from pool of trained staff.	Welfare Group
• Welfare team	To be determined	Welfare Group
• Facility team	To be determined	
• Sport and Rec team	To be determined	
• Medical team	To be determined. It is likely St Johns volunteers will be requested. Evacuees will be referred to off-site medical services.	Medical Group
• Public health team	To be determined	Public Health Group
• Transport team	To be determined	Transport Group

Evacuation centre set-up	Refer to the evacuation centre template for set-up considerations.	
What strategy will be put in place to close the evacuation centre?	Closure of the evacuation centre will be largely dependent on the extent of inundation and complexity of the recovery process.	
Stage 5 – Return		
Indicators or triggers that will enable a return	(Refer to Recovery action plan for the community) DCMC	
Who is responsible for developing a plan for the return?	Recovery coordination in conjunction with Incident Management Team (IMT).	
• Transportation	To be determined	
• Route/assembly points en-route	To be determined	
• End point	To be determined	
How will information about the return be communicated to evacuees?	To be determined	
What information needs to be conveyed to the evacuated community members?	To be determined	

11.5. Annex E: Summary of response and recovery activities

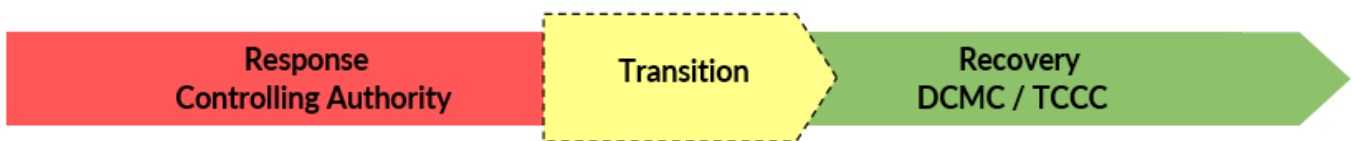
The following tables list a summary of possible response and recovery activities to be considered following an event.

This table is presented as a guide only, assisting emergency managers with operational decision making, planning and resource allocation. It also highlights the importance of response and recovery coordination working collaboratively.

Activities have been broken down and are listed under either response or recovery for simplicity and ease of use. In practice not all response activities will be completed during the response phase. Likewise not all recovery activities will commence after the transition to recovery.

The post event period of any event is highly dynamic and produces many challenges, both foreseen and unpredicted. Response and recovery coordination must be flexible and able to adapt to the situation as it evolves.

In most cases the points noted in this table and in the ensuing document are outlined in greater detail in functional group or agency plans.



Activity	Response activities	Recovery activities
1. Situational awareness	<ul style="list-style-type: none"> Road clearance teams General public Media reports Survey and rescue teams Impact assessment teams 	<ul style="list-style-type: none"> Contributes to recovery planning through impact assessment data Comprehensive impact assessments Needs assessment
2. Public Information	<ul style="list-style-type: none"> Public Information Group activation Spokespersons identified SecureNT activated 	<ul style="list-style-type: none"> Continues in recovery
3. Survey and Rescue	<ul style="list-style-type: none"> Survey teams deploy to designated areas Critical sites surveyed Deploy rescue teams – NTFRS and Territory Response Group provide primary Urban Search and Rescue capability 	<ul style="list-style-type: none"> Survey and impact assessment data used to develop the Recovery Action Plan
4. Road clearance	<ul style="list-style-type: none"> Road patrol teams deploy and check assigned routes Road clearance to priority sites Assess Stuart Hwy to Katherine (supply route) 	<ul style="list-style-type: none"> Restoration of road networks and bridges Return to business as usual
5. Emergency accommodation	<ul style="list-style-type: none"> Emergency accommodation and shelter <ul style="list-style-type: none"> evacuation centres 	<ul style="list-style-type: none"> Evacuation centres may continue into recovery

Activity	Response activities	Recovery activities
	<ul style="list-style-type: none"> • Provision of resources that will enable people to remain in their homes • Emergency clothing 	<ul style="list-style-type: none"> • Temporary accommodation options • Repatriation planning
6. Medical	<ul style="list-style-type: none"> • Hospital <ul style="list-style-type: none"> - road clearance to the hospital - damage assessment - increase morgue capacity - divert patients from remote and regional areas - power (fuel) and water supplies • Medical clinics and field hospitals <ul style="list-style-type: none"> - determine the need for clinics to be opened - assess damage to clinics - deploy field hospital/s • Medical presence in shelters <ul style="list-style-type: none"> - supplied by the Medical Group • Ambulance pick up points on key, cleared roads • GP clinics and pharmacies <ul style="list-style-type: none"> - identify GP clinics able to open - identify pharmacies able to open • Medically vulnerable people <ul style="list-style-type: none"> - support agencies to follow-up and advise the Medical Group - vulnerable people in shelters - support for vulnerable people at shelters • Care Flight/Royal Flying Doctor Service 	<ul style="list-style-type: none"> • Hospital <ul style="list-style-type: none"> - repair works - business continuity plans • Department of Health <ul style="list-style-type: none"> - health centres - repair works - reopen other clinics • Support return of vulnerable people in community. • GP clinics and pharmacies <ul style="list-style-type: none"> - ongoing liaison by the Medical Group • CareFlight/Royal Flying Doctor Service - resume business as usual • St John Ambulance – resume business as usual
7. Essential goods and services	<ul style="list-style-type: none"> • Establish emergency feeding and food distribution points • Assessing the damage to suppliers and retailers of critical resources 	<ul style="list-style-type: none"> • Support the re-opening of the private business sector • Monitor levels and availability of essential goods

Activity	Response activities	Recovery activities
	<ul style="list-style-type: none"> Assess the impact on barge operations and any effect on the ability to supply remote communities Implement interim banking arrangements 	<ul style="list-style-type: none"> Manage logistics arrangements supplying resources to outlying communities Public health inspections (food outlets) Banking sector business continuity arrangements
	<p><u>Fuel</u></p> <ul style="list-style-type: none"> Fuel suppliers and point of sale Manage fuel supplies to emergency power generation 	<ul style="list-style-type: none"> Monitor fuel levels Infrastructure repairs Emergency fuel supplies for recovery Liaise with fuel suppliers, distributors and wholesalers to re-establish long term supply
	<p><u>Banking</u></p> <ul style="list-style-type: none"> Assess damage to banks and ATMs Implement temporary arrangements 	<ul style="list-style-type: none"> Emergency cash outlets Implement long term arrangements
8. Evacuation	<ul style="list-style-type: none"> Evacuations within community Evacuation out of community Registration 	<ul style="list-style-type: none"> Support services for evacuees Recovery information for evacuees Repatriation
9. Public health	<ul style="list-style-type: none"> Communicable disease control response Drinking water safety standards Sewage and waste disposal Safe food distribution and advice Vector and vermin control Food and commercial premises 	<ul style="list-style-type: none"> Ongoing in recovery
10. Utilities	<ul style="list-style-type: none"> Power supply Power generation Water supply Sewerage Emergency sanitation 	<ul style="list-style-type: none"> Restore power network Restore water and sewerage infrastructure Issue alerts until safe to use
11. Impact assessments	<ul style="list-style-type: none"> Training assessment teams Initial impact assessments 	<ul style="list-style-type: none"> Comprehensive impact assessments Ongoing needs assessments
12.	<u>Air (airport/airstrip)</u>	<ul style="list-style-type: none"> Monitor repairs and business continuity activities

Activity	Response activities	Recovery activities
Transport infrastructure (supply lines)	<ul style="list-style-type: none"> • Clear the runway to allow air movements • Establish a logistics hub at the airport • Terminal damage and operational capability assessment 	
	<u>Road</u> <ul style="list-style-type: none"> • Highway and critical access roads damage assessment • Repair work to commence immediately 	<ul style="list-style-type: none"> • Planning and prioritising repair work of all affected key Territory Highways (Stuart, Barkly, Victoria and Arnhem)
	<u>Rail</u> <ul style="list-style-type: none"> • Rail damage assessment • Outage estimation 	<ul style="list-style-type: none"> • Ongoing liaison with operator to support restoration to business as usual
	<u>Port, harbour and barge</u> <ul style="list-style-type: none"> • Assess damage to port infrastructure and harbour facilities • Assess the damage to barge facilities 	<ul style="list-style-type: none"> • Repairing infrastructure • Establish alternate arrangements for the supply of remote communities
13. Waste management	<ul style="list-style-type: none"> • Waste management requirements and develop waste management plan if required 	<ul style="list-style-type: none"> • Continues in recovery
14. Repairs and reconstruction	<ul style="list-style-type: none"> • Private housing <ul style="list-style-type: none"> - impact assessments - temporary repairs • Government buildings <ul style="list-style-type: none"> - damage assessment • Public housing <ul style="list-style-type: none"> - impact assessments • Private industry <ul style="list-style-type: none"> - damage assessments 	<ul style="list-style-type: none"> • Private housing <ul style="list-style-type: none"> - information and support to facilitate repairs • Government buildings <ul style="list-style-type: none"> - repairs and reconstruction • Public housing <ul style="list-style-type: none"> - long term repair plans • Private industry <ul style="list-style-type: none"> - repair and reconstruction • Temporary accommodation for a visiting construction workforce
15. Transport services	<ul style="list-style-type: none"> • Staged re-establishment of public transport services 	<ul style="list-style-type: none"> • Continues in recovery
16. Tele-communication	<ul style="list-style-type: none"> • Telstra and Optus will assess the damage to their infrastructure 	<ul style="list-style-type: none"> • Repair damage networks and infrastructure (for private

Activity	Response activities	Recovery activities
	<ul style="list-style-type: none"> Put in place temporary measures to enable landline and mobile services 	entities there is support for operators only)
17. Public safety	<ul style="list-style-type: none"> Police will maintain normal policing services to the community 	<ul style="list-style-type: none"> Gradual return to business as usual
18. Animal welfare	<ul style="list-style-type: none"> Temporary emergency arrangements for pets 	<ul style="list-style-type: none"> Reunite pets with their owners and cease emergency support arrangements
19. Community consultation	<ul style="list-style-type: none"> Information provision regarding the overall situation, response efforts, what services are available and how to access them 	<ul style="list-style-type: none"> Community consultation process regarding long term recovery and community development

12. Acronyms

Acronyms	Definitions
AAPA	Aboriginal Areas Protection Authority
ABC	Australian Broadcasting Corporation
AEP	Annual Exceedance Probability
AIDR	Australian Institute Disaster Resilience
AIIMS	Australasian Inter-Service Incident Management System
BFNT	Bushfires NT
BRACS	Broadcasting for Remote Aboriginal Communities Scheme
DCDD	Department of Corporate and Digital Development
DCMC	Department of the Chief Minister and Cabinet
DEPWS	Department of Environment, Parks and Water Security
DIPL	Department of Infrastructure, Planning and Logistics
DITT	Department of Industry, Tourism and Trade
DoE	Department of Education
DoH	Department of Health
EOC	Emergency Operations Centre
ERA	Emergency Response Area
ESO	Essential Services Operators
FERG	Fire and Emergency Response Group
GEC	Government Engagement Coordinator
ICAD	Intergraph Computer-Aided Dispatch
ICC	Incident Control Centre
ICP	Incident Control Point
JESCC	Joint Emergency Services Communications Centre
KM	Kilometres

Acronyms	Definitions
LCC	Local Coordination Centre
LEC	Local Emergency Committee
LRCC	Local Recovery Coordination Committee
M	Metres
NERAG	National Disaster Risk Assessment Guidelines
NT	Northern Territory
NTPF	Northern Territory Police Force
NTES	Northern Territory Emergency Service
NTFRS	Northern Territory Fire and Rescue Service
NTG	Northern Territory Government
NTPFES	Northern Territory Police, Fire and Emergency Services
PPRR	Prevention, Preparedness, Response and Recovery
RAT	Rapid Assessment Team
RCC	Rescue Coordination Centre
RGRC	Roper Gulf Regional Council
SEWS	Standard Emergency Warning Signal
SITREP	Situation Report
TCCC	Territory Crisis Coordination Centre
TDO	Territory Duty Officer
TEMC	Territory Emergency Management Council
TFHC	Department of Territory Families, Housing and Communities
The Bureau	Bureau of Meteorology
WebEOC	Web-Base Emergency Operation Centre