

Monthly Report

June 2018

Document details:

Security classification	Public
Date of review of security classification	June 2018
Authority	Queensland Reconstruction Authority
Author	Chief Executive Officer
Document status	Final
Version	1.0

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Information security

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Disaster Assistance

Overview

QRA has responsibility to administer Natural Disaster Relief and Recovery Arrangements (NDRRA) measures in Queensland, coordinating the Government's program of infrastructure renewal and recovery within disaster-affected communities.

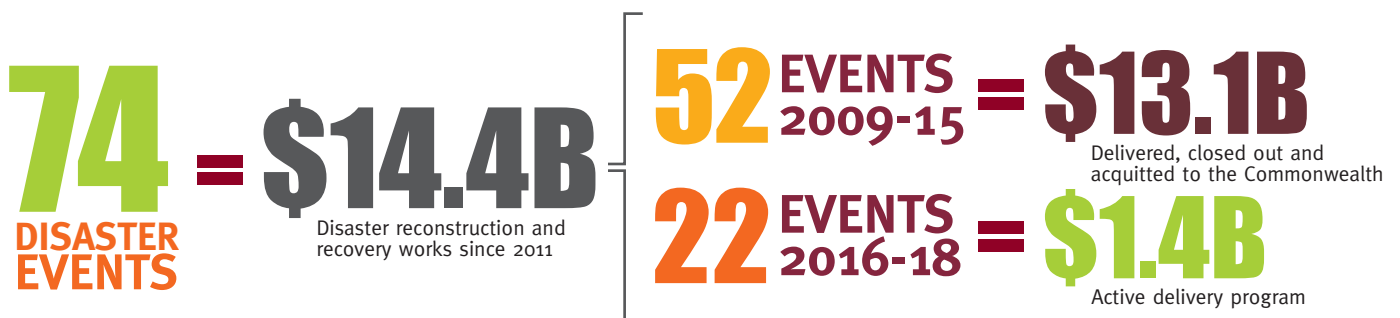
Since its establishment in February 2011, QRA has managed and coordinated \$14.4 billion of disaster reconstruction and recovery works for 74 disaster events activated for NDRRA relief measures.

The list of activated disaster events is found on www.disaster.qld.gov.au.

Of the program, \$12.9 billion for 52 events from the 2009-10, 2011, 2012, 2013, 2014 and 2015 events are complete, having been delivered, closed out and acquitted to the Commonwealth in audited claims.

Works worth \$1.4 billion for the remaining 22 events from the 2016 to 2018 event periods are currently in the active delivery phase (**Delivery Program**).

NDRRA Delivery Program status



Natural Disaster Funding Reforms

On 8 June 2018, the Commonwealth released its finalised reforms to natural disaster funding arrangements, known as Disaster Recovery Funding Arrangements 2018 (DRFA).

The main change under DRFA relative to the existing NDRRA model is that natural disaster recovery funding for the restoration of essential public assets will be based on upfront damage assessments and estimated reconstruction costs rather than reimbursement of actual costs incurred. DRFA also provides the potential for the state to retain savings delivered in the state's restoration program for allocation to disaster mitigation and resilience projects.

DRFA will apply to any disaster events that occur from 1 November 2018, although the state will also continue to administer and submit claims under the existing NDRRA Determination for a two year period whilst the existing 2016, 2017 and 2018 Event disaster programs are finalised.

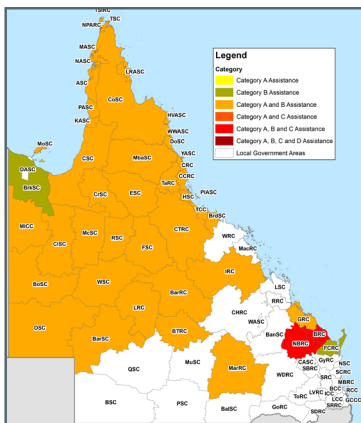
QRA is currently finalising its trialling of the new model and preparing for the transition to DRFA.

Disaster Assistance

Activations

NO NDRRA activations new in May 2018

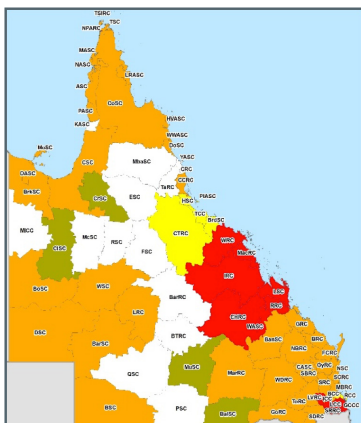
The figures below show the LGAs activated as at 30 April 2018 for NDRRA relief measures for the 2016 to 2018 event periods that are in the Delivery Program.



2018 Events – \$373 million NDRRA program

(Works to be delivered by 30 June 2020, with acquittal by March 2021)

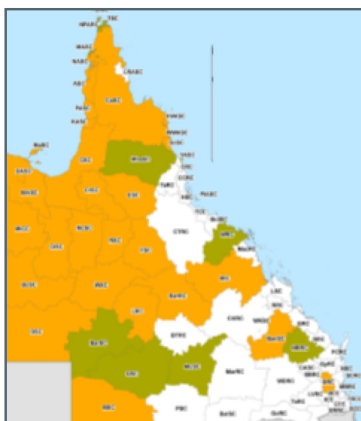
- Severe Tropical Cyclone Nora and Associated Flooding, 24-29 March 2018
- North Queensland Flooding, 6-10 March 2018
- North and North West Queensland Low and Associated Rainfall and Flooding, 24 Feb – 8 Mar 2018
- Central Queensland Storm, 20 February 2018
- Cape York Queensland Trough, 26 January – 2 February 2018
- Central Coast Queensland Severe Weather, 16 – 19 October 2017



2017 Events – \$822 million NDRRA program

(Works to be delivered by 30 June 2019, with acquittal by March 2020)

- Far North Queensland Trough, 21-28 March 2017
- Far North Queensland Trough, 3-10 February 2017
- Severe Tropical Cyclone Debbie, associated rainfall & flooding, 28 March-6 April 2017
- Gulf Tropical Low, 15-24 February 2017
- Far North Queensland Low, 8-11 January 2017
- Western Queensland Flooding, 13-20 September 2016
- Central Queensland Severe Weather, 15-20 July 2016



2016 Events – \$240 million NDRRA program

(Works to be delivered by 30 June 2018, with acquittal by March 2019)

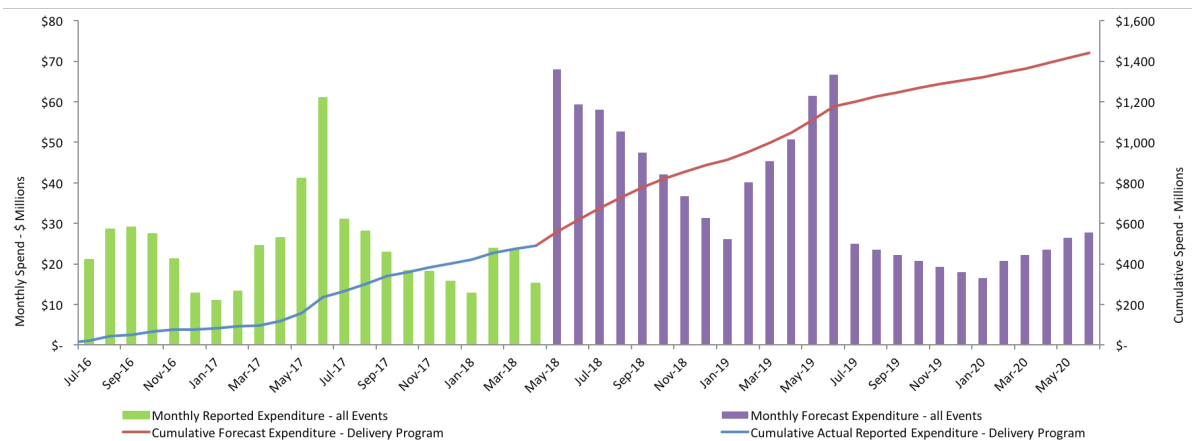
- Central Western Queensland Flooding, 13-19 June 2016
- Far North Queensland Upper Level Trough, 21-23 May 2016
- South West Queensland Floods, 7-9 May 2016
- Far North and North West Queensland Tropical Low, 14-18 March 2016
- Western Queensland Trough, 7-11 March 2016
- Central Coast Surface Trough, 4-8 February 2016
- Central Western Queensland Heavy Rainfall & Flooding, 2-4 February 2016
- Gulf of Carpentaria Monsoon Trough – 20-31 December 2015
- Fernvale Severe Storm, 27 October 2015.

Disaster Assistance

NDDRA Delivery Program status

The **Delivery Program** comprises \$1.4 billion of works for 22 events across the 2016, 2017 and 2018 Events.

The graph below shows the actual reported and forecast monthly remaining expenditure for all NDDRA works since 1 July 2015, and estimated total costs remaining to complete the Delivery Program as at 31 May 2018.



The status of the Delivery Program by event year is as follows:

2016 Events

All submissions for the 2016 events have been pre-approved and works are required to be complete by 30 June 2018 in order to be eligible under NDDRA.

QRA is monitoring and assisting councils and state agencies with progressing their program of 2016 event works through to completion by this nearing deadline.

2017 Events

Across the 2017 disaster season, 62 councils were activated for NDDRA assistance from seven events.

QRA is currently finalising the remaining submission approvals and actively working with delivery agents to progress the reconstruction program through the delivery phase. Delivery agents have until 30 June 2019 to deliver eligible NDDRA works.

2018 Events

Across the 2018 disaster season to date, 46 councils have been activated across six disaster events.

QRA is assisting with activation requests and damage assessments in relation to the 2018 events, as required.

Disaster Assistance

NDRRA Acquittal Program status

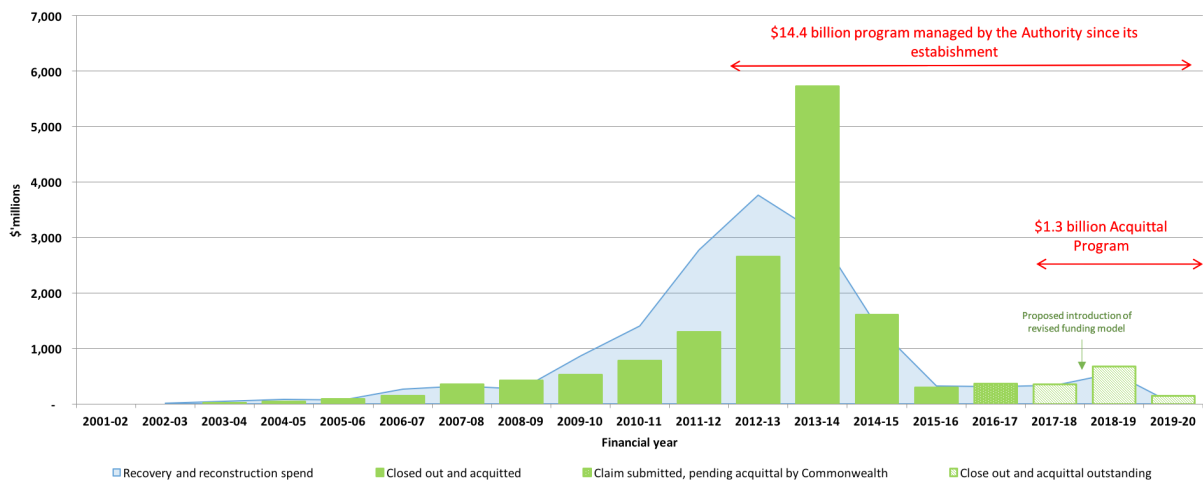


The **Acquittal Program** comprises \$1.3 billion of works that is yet to be acquitted in claims to the Commonwealth, across the 22 events from the 2016 to 2018 Events in the Delivery Program and a small number of projects from the 2015 event period that received extensions of time for delivery.

On 23 March 2018, QRA submitted the State’s annual NDRRA claim to the Commonwealth for works completed in the year to 30 June 2017. The claim was accompanied by an unqualified audit opinion and included final works from the 2015 events and components of the 2016 and 2017 event works completed by 30 June 2017.

The claim comprised \$370 million of State Expenditure and was accepted and acquitted by the Commonwealth without adjustment in early June 2018. The Commonwealth finalised the process through the payment of its \$173 million contribution due to the state on acquittal of the claim on 7 June 2018.

The following graph shows the historical and projected acquittal profile for Queensland as per Commonwealth Claims submitted for the 2001-02 to 2016-17 financial years and preliminarily expected to be submitted for 2017-18 to 2019-20 in order to finalise the Acquittal Program.



Disaster Assistance

Additional Recovery Measures – Severe Tropical Cyclone Debbie (2017)

A range of NDRRA and non-NDRRA relief measures have been activated to alleviate distress for communities, businesses, industries and the environment impacted by Severe Tropical Cyclone (STC) Debbie.

COMMUNITY RECOVERY FUND NDRRA CATEGORY C \$14.9M

- Fund to support initiatives and projects over a two year period to restore social networks and build community resilience and capacity for the future in the Gold Coast, Isaac, Logan City, Mackay, Rockhampton, Scenic Rim and Whitsunday council areas.
- The Queensland Government Department of Communities, Disability Services and Seniors and Queensland Health is delivering three support programs to individuals, and community mental health and community development programs, with detailed status reports provided on a quarterly basis.

EXCEPTIONAL DISASTER MEASURES NDRRA CATEGORY D \$96.3M

Package	Purpose	Status
Local Council Package (\$17.3 million)	<p>Infrastructure projects to generate employment, boost the local economy and drive community resilience in key impact areas:</p> <ul style="list-style-type: none"> • Shute Harbour Marina (\$15.2 million) – demolish and replace the existing jetty, rebuild the terminal building, repair an existing seawall, and replace ancillary infrastructure • Airlie Beach repairs, Whitsundays (\$850k) – for repairs 	<ul style="list-style-type: none"> • Whitsunday Regional Council are in the process of engaging a design consultant for Shute Harbour, anticipated to be awarded in August 2018. Demolition works on the Lloyd Roberts jetty and terminal building commenced in April 2018. • Detailed design is completed for the repair works on the Airlie Beach foreshore parklands, with documentation currently out to the market for tender. Works are expected to commence in June 2018. Whitsunday Regional Council are in the process of determining the eligible NDRRA Category D component, not covered by insurance.
Resilient Infrastructure (Betterment) (\$41.9 million)	<ul style="list-style-type: none"> • To restore or replace essential public assets to a more disaster resilient standard. • The normal cost of restoring or replacing the asset to its pre-disaster standard is funded under Category B NDRRA and the incremental cost to 'better' the asset to a more disaster-resilient standard is funded by a capped allocation from the Betterment fund and Council contributions. 	<ul style="list-style-type: none"> • \$1.9 million has been pre-approved by the Commonwealth to cover the betterment component on the Shute Harbour Marina seawall • Expressions of Interest (EOI) were received from eligible councils activated for Category B (REPA) seeking \$114 million, resulting in more than 100 submissions being received from 22 councils. • Of this, over 100 submissions have been received from 22 Councils. • 83 projects have been approved worth \$41.9 million, fully allocating the Betterment funding across 22 councils.
Environmental Recovery Package (\$35 million)	<ul style="list-style-type: none"> • To ensure the recovery of impacted environmental areas, including the clean-up of beaches, recreational parks, rivers and waterways • \$35 million of the Environmental Recovery Package across five areas: <ul style="list-style-type: none"> A. Coastal B. Environmental C. Riparian D. Mapping E. Water Courses 	<ul style="list-style-type: none"> • QRA & the Department of Environment & Science (DES) agreed on notional allocations between categories following a review of all EOIs. A & B (Coastal, Environmental) – \$19.4 million • EOIs were received from 14 of 37 eligible Councils seeking \$31.5 million. Projects were shortlisted and Councils requested to submit detailed applications. • 42 submissions worth more than \$19.2 million has been approved to date across 15 Councils. C, D & E (Riparian, Mapping, Water Courses) – \$15.6 million • Following receipt of EOIs from seven Natural Resource Management (NRM) bodies, all funding has been allocated to eligible projects.
Economic Recovery Package (\$2.1 million)	<ul style="list-style-type: none"> • To support recovery of industry and businesses in and around impacted areas that experienced significant disruption and damage 	<ul style="list-style-type: none"> • Department of Agriculture & Fisheries has Industry Recovery Officers (IRO) in impacted areas across five primary industries including nursery, grazing and cropping, horticulture, sugarcane and dairy. • Rural financial counselling services are delivering support on the ground and IROs have been assisting primary producers with Category C Recovery Grant applications to QRIDA. Agronomic advice is being provided to farmers on a needs basis.

Disaster Assistance

STATE PACKAGES \$62M

The state has committed to fund the full \$110 million of additional assistance measures that it would have funded under its original Category D proposal to the Commonwealth. Of this, the State will fund an additional \$62 million of recovery measures in addition to its \$48 million (50 percent) contribution to the \$96 million NDRRA Category D packages approved by the Commonwealth.

Key projects announced to date for State funding for additional recovery measures to repair damage and revitalise impacted regions following STC Debbie include:

- \$8.8 million will go towards revitalising the iconic tourism destinations of Mackay’s Bluewater Trail and Queens Park
- \$5 million has been committed for repairs to the Whitsunday Regional Council Administration Building in Proserpine, which was badly damaged by STC Debbie and serves as the region’s local disaster coordination centre.
- \$4.562 million is being provided to determine the best long-term solutions to help prevent erosion prior to sand replenishment at Midge Point and Lamberts Beach and the construction of new rock groynes on St Helens Beach in Mackay.
- \$2.65 million towards the revitalisation of the Airlie Beach Foreshore. Additional funding is being provided through the state’s Building our Regions program (\$2.83 million) and Category D (\$850,000).



Concept plan for Airlie Beach Foreshore Project (courtesy Whitsunday Regional Council)

Recovery and Resilience



QRA is leading disaster recovery, resilience and mitigation policy in Queensland. A summary of recent progress is set out below:

Natural Disaster Resilience Program (NDRP)

\$12M
FUNDING AVAILABLE
NDRP

The 2017-18 Natural Disaster Resilience Program (NDRP) opened on 4 April 2018 for funding applications for projects supporting natural disaster resilience activities.

The NDRP is jointly funded (50/50) by the Queensland and Australian Governments under the National Partnership Agreement on Natural Disaster Resilience and is administered by the QRA.

Total funding available for the 2017-18 financial year is \$12 million and the applicant is expected to financially contribute to the project.

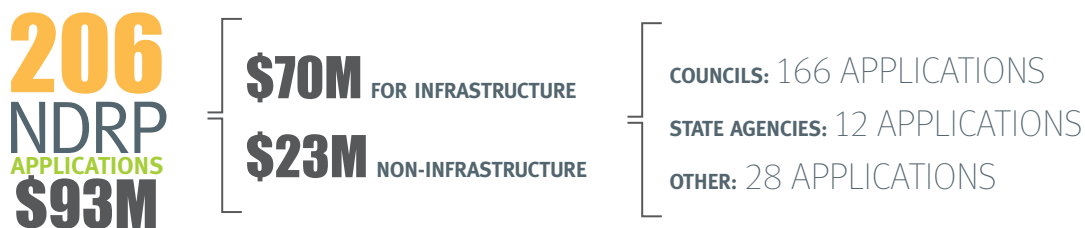
Funding can be sought for both infrastructure and non-infrastructure projects, such as education programs, flood studies and flood or bushfire risk management studies and plans.

Project applications should align with both the National Strategy for Disaster Resilience, and the four objectives underpinning our statewide all-hazards Queensland Strategy for Disaster Resilience:

- Queenslanders understand their disaster risk
- Strengthened disaster risk management
- Queenslanders are invested in disaster risk reduction
- Continuous improvement in disaster preparedness, response and recovery.

Invitations to submit NDRP applications and secure application form login details have been sent to all council CEOs. Information about the NDRP including a fact sheet, application guidelines and a secure online application form is available on QRA's website at www.qldreconstruction.org.au/ndrp.

Following initial close of the application period on 27 April 2018, QRA had received 206 applications for \$93 million NDRP funding as follows:



QRA is currently assessing applications in order to allocate the \$12 million available NDRP funding in June 2018.

Recovery and Resilience

Resilient Queensland – Delivering the Queensland Strategy for Disaster Resilience 2018-2021

A stronger, safer, more resilient Queensland

In a nationwide first for disaster recovery and resilience, the Queensland Reconstruction Authority (QRA) has developed a state-wide plan that will strengthen Queensland's resilience to natural disasters.

Resilient Queensland – Delivering the Queensland Strategy for Disaster Resilience 2018-2021 is a blueprint for use across government, the community, not-for-profit sector, business and industry that will see every region across Queensland with an individually-tailored regional resilience plan by 2022.

Resilient Queensland, the implementation plan for the 2017 Queensland Strategy for Disaster Resilience, was presented by QRA CEO Brendan Moon at the Floodplain Management Australia National Conference on the Gold Coast in May following comprehensive state-wide consultation.

The invaluable knowledge that already exists at a local level has been collated to create a structured plan that will strengthen our communication networks, encourage shared knowledge, identify gaps and opportunities and refine our understanding of community attitudes and disaster awareness levels across Queensland.

It will deliver better coordination of government policy, information management, project delivery and stakeholder collaboration through tangible projects that deliver outcomes.

Resilient Queensland is already delivering on a more disaster resilient state through a range of programs including the North Stradbroke Island Township Bushfire Management Plans, the Burnett Catchment Flood Resilience Strategy and further resilience plan pilot projects in Western Queensland, the Mary and Fitzroy River regions.

The release of Resilient Queensland followed the announcement of a \$38 million Disaster Resilience Fund to strengthen the state's resilience to future disasters.

The fund will support local governments, state agencies and non-government organisations in delivering disaster mitigation projects and initiatives that build resilience throughout the state over the next four years in parallel with disaster reconstruction works.

The Disaster Resilience Fund aligns with the Queensland Strategy for Disaster Resilience, which identifies a need for the state to invest in resilience and mitigation projects that:

- address the state's assessed natural disaster risks and the potential impacts of climate change;
- align with locally led risk, vulnerability and capability assessments; and consider local and district priorities;
- support communities to build resilience to future natural disaster events through education and awareness programs; and
- protect existing essential public infrastructure from future natural disaster events.

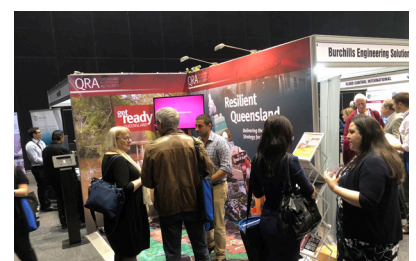
For more information visit: www.qldra.org.au/ResilientQueensland



QRA CEO Brendan Moon presenting Resilient Queensland at the Floodplain Management Australia National Conference



QRA's Resilient Queensland display at the 2018 Flood Management Australia Conference 29 May-1 June 2018



QRA staff in action at the Resilient Queensland display



Hinchinbrook Shire SES volunteers patrolling during STC Nora in March 2018

Recovery and Resilience

Other Recovery and Resilience Activities

Activity	Purpose	Status
Recovery Capability Development	<p>Recovery from Severe Tropical Cyclone Debbie and IGEM's 2017 Disaster Management Plan Assessment Report highlighted the varying levels of recovery capability across local governments.</p> <p>The Recovery Capability Development Project aims to address gaps in recovery capability through a series of training workshops and exercises.</p> <p>The project is being developed and delivered collaboratively with state government and local recovery partners in 3 stages:</p> <ol style="list-style-type: none"> 1. Initial Engagement 2. Training and Exercise Package Development 3. Training and Exercise Delivery 	<ul style="list-style-type: none"> Phase 1 of the project has been completed for all councils, with the exception of the Indigenous Gulf of Carpentaria local governments which were recently impacted by STC Nora. These councils will be consulted at the Far North Disaster District Management Group meeting in June 2018. Recovery partners are being engaged to scope potential long-term recovery and resilience building initiatives for the Gulf communities impacted by STC Nora, taking into account local preferences and aligning assistance with community needs Phase 2, Training and Exercise Package development has commenced and will focus on the key recovery capability themes identified by the local governments, namely planning, governance, data collection and impact assessments, and locally/community led approaches to recovery. All local governments in the first tranche of the project are being consulted to confirm suitable dates for delivery of the training and exercises in Phase 3 of the project, with the completion date planned for 30 August 2018.
Burnett Catchment Flood Resilience Strategy (pilot project)	<p>The Burnett Catchment Flood Resilience Strategy is a pilot project to facilitate delivery of improved flood resilience on a catchment scale, and will support LGAs in developing their own flood risk management strategies and resilience plans. The purpose of the pilot is to test and evaluate the relevant methodologies for potential State-wide application.</p>	<ul style="list-style-type: none"> The project has the support of the Wide Bay Burnett Regional Organisation of Councils (WBBROC), who act as the Steering Committee for the project. Formal endorsement of the project was provided by the committee on 1 March 2018. Several risk identification and resilience workshops with local councils and a range of other stakeholders were successfully held in Bundaberg and Biggenden between October 2017 and February 2018. Endorsement of the Strategy was received at the May 2018 WBBROC meeting. The Burnett Catchment Flood Resilience Strategy was officially released at the Floodplain Management Australia conference on 31 May 2018, followed by a panel session with QRA and council representatives.
Brisbane River Catchment Flood Studies	<p>The Queensland Government, through QRA and partner agencies, and local councils (Brisbane, Ipswich, Somerset and Lockyer Valley) are working together on a long-term plan to manage the impact of future floods and enhance community safety and resilience in the Brisbane River floodplain.</p> <p>The project includes development of a Flood Study followed by a Strategic Floodplain Management Plan (SFMP) that will guide a coordinated approach to planning and response activities to manage flood across the floodplain.</p>	<ul style="list-style-type: none"> The Flood Study is complete and available to the public following its launch on 5 May 2017. The Flood Study supports the development of a draft SFMP, which is underway and scheduled for completion in the latter half of 2018. A range of regional scale opportunities are being investigated as part of the SFMP including structural mitigation options, disaster management, land use planning, community awareness and resilience, building controls and integrated catchment management. Detailed Local Floodplain Management Plans (LFMPs) will commence following the completion of the SFMP.

Recovery and Resilience

Other Recovery and Resilience Activities

Activity	Purpose	Status
Flood Warning Gauge Network Program	QRA continues to assist the Bureau of Meteorology (Bureau) to ensure the best available information is available for providing flood warnings and forecasts.	<ul style="list-style-type: none"> All Stage 1 and Stage 2 Flood Warning Gauge Network Investment Plans have been finalised. In total 44 Investment Plans have been issued and 62 local councils identified in a state-wide review as requiring more detailed review of flood warning infrastructure. The Brisbane catchment audit was completed and issued in November 2017 The Queensland (rest of state) gauge audit report has been received in draft from the Bureau. QRA has provided feedback and is awaiting the final report back from the Bureau. QRA is reviewing the status of the Network Investment Plans with councils with regards to implementation of recommendations.
North Stradbroke Island Bushfire Management Plan	<p>The QRA and Quandamooka Yoolooburrabee Aboriginal Corporation (QYAC) are partnering to deliver Township Bushfire Management Plans for Point Lookout (Mooloomba), Amity (Pulan Pulan) and Dunwich (Goompi).</p> <p>QRA is undertaking this project in partnership with QYAC with support from the Department of Environment and Science.</p>	<ul style="list-style-type: none"> All three plans are scheduled for completion in early-mid 2018. Community information sessions took place in March 2018 to the communities of the three townships. A short video has been produced in conjunction with QYAC to promote the concept of the bushfire management plans on North Stradbroke Island. This is on QRA and QYAC's websites and has been shared at the community information sessions. Engagement with state government departments for implementation and handover is underway.
Operation Queensland Recovery Plan and reporting (2017 Recovery Plan)	<p>The Operation Queensland Recovery Plan provides the framework for a community-led approach to recovery following STC Debbie in 2017.</p> <p>The plan focuses on empowering local governments, supported by state agencies, to deliver local solutions to ensure communities are able to lead their own recovery and build resilience for future events.</p> <p>The Recovery Plan includes local recovery plans for the eight most severely impacted local government areas.</p>	<ul style="list-style-type: none"> The 2017 Recovery Plan was tabled in Queensland Parliament and publicly released on 9 May 2017. QRA is continuing to monitor and coordinate recovery progress and effectiveness of recovery efforts, including initiatives to address insurance-funded recovery of residences in the Mackay and Whitsundays regions.
Queensland 2018 Severe Storm, Cyclone and Flood Event Recovery Plan (2018 Recovery Plan)	<p>The 2018 Recovery Plan provides the framework for locally-led approach to recovery following the series of disaster events that have impacted 46 LGAs since mid-January 2018.</p> <p>The 2018 Recovery Plan will help close the gap between local/community based recovery capability and community recovery needs, harnessing the capability of government agencies and the knowledge of recovery partners, as required.</p> <p>The plan focuses on supporting impacted communities, through their local governments and provides the framework for recovery coordination across the impacted areas.</p>	<ul style="list-style-type: none"> The 2018 Recovery Plan has been developed in consultation with recovery partners at the local, district and state levels to frame, define and develop and understanding of recovery needs in the state's disaster impacted regions. The plan includes Local Recovery 'Plans on a Page', as approved by Hinchinbrook Shire Council and the Cassowary Coast Regional Council The 2018 Recovery Plan work in conjunction with the existing 2017 Recovery Plan, where relevant. The plan will be publicly released on the QRA website following approval.

Program spotlights

Mackay tourist attractions to be revitalised after STC Debbie

The Queensland Government recently announced \$13.42 million for the Mackay region to revitalise a number of key tourist attractions devastated by Severe Tropical Cyclone (STC) Debbie last year.

Mackay Regional Council received \$8.8 million to revitalise its Bluewater Trail and Queens Park and \$4.562 million to restore Lamberts Beach, St Helens Beach and Midge Point Beach, ensuring their ongoing legacy for the community.

The Bluewater Trail is Mackay's most used cycle path and a key piece of tourism and community infrastructure, providing a walking and cycling link between suburbs the city centre, schools and hospital.

The trail suffered damage to paths and bridges with access blocked for tourists, commuters, pedestrians and cyclists due to undermined pathways and damage to bridges.

The revitalisation project includes upgrading roads, extending the shared path and carpark facilities at River Street and enhancing recreational facilities along the trail, including picnic shelters and toilet blocks.

Funding for the historic Queens Park, home to Orchid House and a popular wedding venue, will be used to restore and improve amenities.

Eleven of Mackay's beaches were previously approved for \$3.778 million in jointly funded State-Commonwealth NDRRA Category D funding. Any additional funding was considered outside the scope of eligible NDRRA Category D funding.

In response to this ineligibility, the State Government approved the additional funding, from the \$110 million the Queensland Government committed to help Queensland communities recover and build resilience after STC Debbie.

This additional funding includes provision for studies at Midge Point and Lamberts Beach which will determine best long-term solutions to help prevent erosion prior to sand replenishment, and the construction of new rock groynes on St Helens Beach.

QRA worked with Department of Environment and Science and Mackay Regional Council to determine ways to restore the beaches and build their resilience to future weather events. Revitalisation works will help return the beaches to a standard that represents their value to the community and the tourism industry while also helping bolster economic stability for the region.



Mackay's beaches suffered extensive damage as a result of STC Debbie.



Damage to Mackay's Bluewater Trail and Queens Park following STC Debbie

Program spotlights

State-controlled Road Network 2017 reconstruction works on track for early completion

Significant progress has been made by the Queensland Department of Transport and Main Roads (TMR) in delivering its \$204 million program of NDRRA reconstruction works for damage to the state-controlled road network caused by the disaster events of 2017. Weather permitting, reconstruction works are currently expected to be substantially complete by December 2018, six months ahead of funding deadlines.

During 2016–17, seven natural disaster events were activated for financial relief measures under the NDRRA. Six of these natural disaster events were activated for Restoration of Essential Public Assets (REPA) under the NDRRA, and affected the state-controlled road network.

Most damage was caused by Severe Tropical Cyclone (STC) Debbie, which crossed the Queensland coast in March 2017. Compared to other natural disasters in recent years, the heavy rainfall totals associated with STC Debbie caused significant landslips as well as road damage, with more than 600 sites requiring geotechnical repairs.

TMR responded quickly with approximately \$21 million in emergent repairs (including clearing debris and critical pavement repairs) and providing detours where necessary.

The complex nature of the damage from STC Debbie has meant further structural and geotechnical investigations and design work were required on many sites, in order to determine the full extent of damage and best value-for-money solutions for long-term repairs.

A total of 193 emergent and reconstruction projects are being undertaken in the 2017 NDRRA events program, with the main areas of focus on the Sarina Range, south of Mackay, and the Gold Coast hinterland, where severe landslips caused road closures.

Reconstruction works have been completed at more than half of the 26 landslip sites on the Sarina Range, three critical sites at Lamington National Park Road and the main landslip site at Tomewin Mountain Road.

To 30 April 2018, 41 of 624 earthworks and batter locations and 15 of 103 structure repair locations have been completed. A total of 4.4km of 43.4km requiring pavement reconstruction has been completed and 59 of 582 silt and debris removal locations have been cleared.



Sarina Range – excavation and placement of soil nails at main slip site

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